

1941

## Washington University School of Medicine bulletin, 1941

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BULLETIN  
OF  
WASHINGTON UNIVERSITY  
SAINT LOUIS



SCHOOL OF MEDICINE

DECEMBER, 1941  
EMORY UNIVERSITY  
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# WASHINGTON UNIVERSITY

---

George R. Throop, Ph.D., LL.D., Bridge Chancellor

---

Walter E. McCourt, A.M., Assistant Chancellor

---

The College of Liberal Arts

Frank H. Webster, Ph.B., Acting Dean

The School of Engineering

Alexander S. Langsdorf, M.M.E., Dean

The School of Architecture

Alexander S. Langsdorf, M.M.E., Dean

The School of Business and Public Administration

William H. Stead, Ph.D., Dean

The Henry Shaw School of Botany

George T. Moore, Ph.D., Director

The School of Graduate Studies

Richard F. Jones, Ph.D., Acting Dean

The School of Law

Joseph A. McClain, Jr., A.B., LL.B., J.S.D., LL.D., Dean

The School of Medicine

Philip A. Shaffer, Ph.D., Dean

The School of Dentistry

Benno E. Lischer, D.M.D., Dean

The School of Nursing

Louise Knapp, B.S., A.M., Director

The School of Fine Arts

Kenneth E. Hudson, B.F.A., Director

The University College

William G. Bowling, A.M., Dean

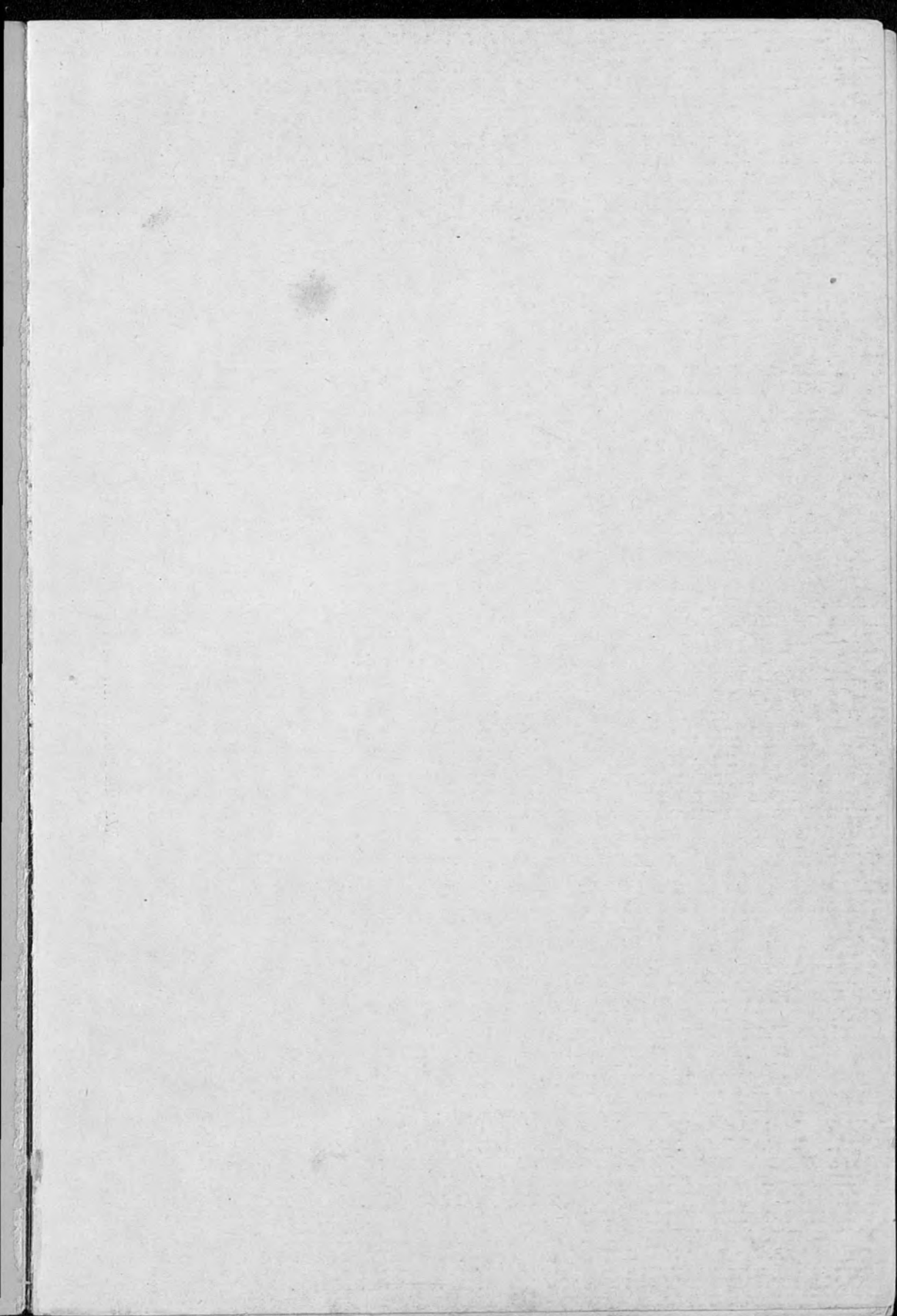
The Summer School

Frank L. Wright, A.M., Ed.D., Director

Mary Institute, a preparatory school for girls, located at Ladue and Warson Roads, is also conducted under the charter of the University.

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Note: Those desiring information concerning any of the divisions listed above should write to the Dean or Director concerned.

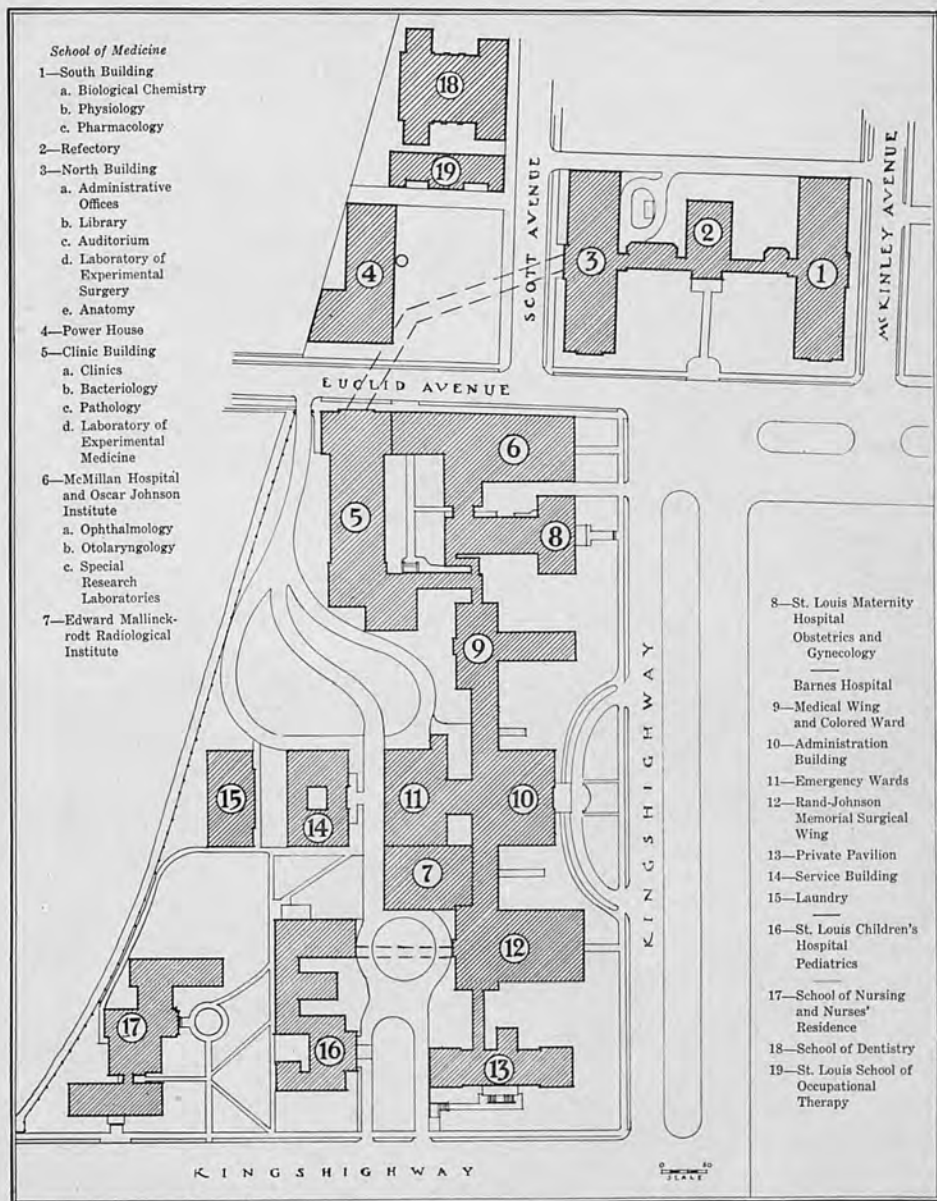




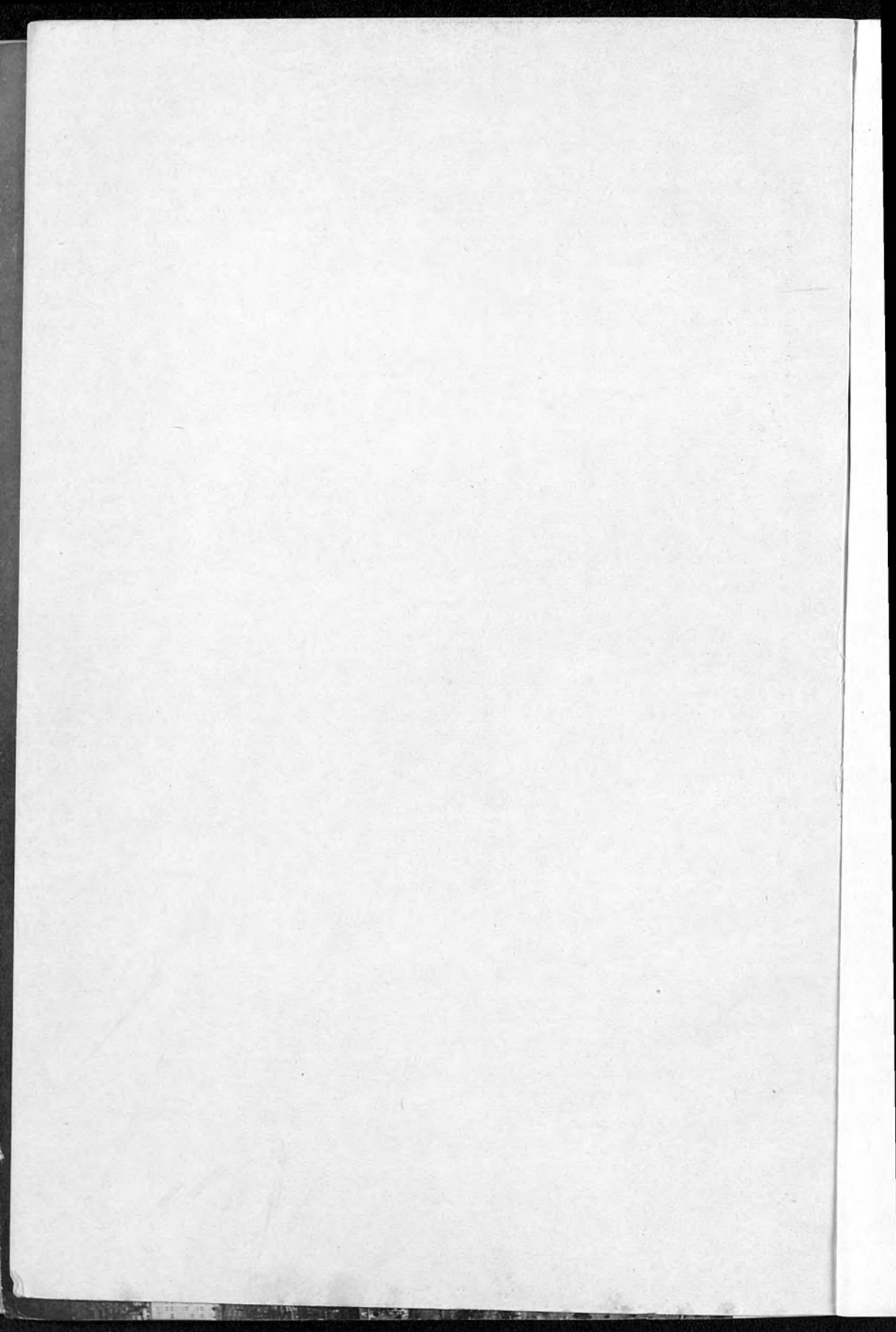


WASHINGTON UNIVERSITY MEDICAL GROUP

*"Papin Aerial Survey," St. Louis*



Block Plan of Washington University Medical Group and School of Dentistry



BULLETIN  
*of*  
WASHINGTON UNIVERSITY  
SAINT LOUIS



SCHOOL OF MEDICINE

DECEMBER, 1941

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PUBLICATIONS OF WASHINGTON UNIVERSITY  
SERIES II                      VOLUME XL                      NUMBER I

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# CALENDAR

1942

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7	..	..	1	2	3	4	
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14	5	6	7	8	9	10	11
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18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	..	..	..	..	..	..	..	29	30	31	..	..	..	..	26	27	28	29	30	..	..

MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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27	28	29	30	..	..	..	25	26	27	28	29	30	31	29	30	..	..	..	..	..	27	28	29	30	31	..	..

1943

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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24	25	26	27	28	29	30	28	..	..	..	..	..	..	28	29	30	31	..	..	..	25	26	27	28	29	30	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

MAY							JUNE							JULY							AUGUST							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
..	..	..	..	1	..	..	1	2	3	4	5	..	..	..	1	2	3	4	5	6	7	1	2	3	4	5	6	7
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14	
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23	24	25	26	27	28	29	27	28	29	30	..	..	..	25	26	27	28	29	30	31	29	30	31	..	..	..	..	
30	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	1	2	3	4	..	..	..	..	1	2	..	1	2	3	4	5	6	..	..	..	1	2	3	4		
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
26	27	28	29	30	..	..	24	25	26	27	28	29	30	28	29	30	..	..	..	..	26	27	28	29	30	31	..
..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

## CALENDAR

### 1941-42

Registration for Second Half-Year, Monday, February 2, 1942.

Third Trimester begins Monday, March 23, 1942.

Commencement, Tuesday, June 9, 1942.

### 1942-43

NOTICE: Change of Academic Calendar.

While this bulletin was in press it was decided to accelerate the undergraduate medical curriculum by continuing instruction for all classes during a full summer quarter beginning in 1942. By the four-quarter plan thus established for the duration of the National Emergency, the minimum period required for graduation will be reduced for the next entering class to three calendar years, with corresponding acceleration for classes now enrolled.

Adoption of this plan will make necessary modifications of the announcements and time schedules printed in this bulletin. It is the intention of the Faculty to avoid any lowering of standards and to maintain the full content of courses as well as the level of accomplishment now required for graduation. There will however be numerous changes directed toward greater emphasis on topics especially related to conditions of the time.

The schedules for the first and second classes will be greatly modified from those printed in this bulletin. The schedules for the third and fourth classes will be modified only in minor ways, except that each will apply to all four quarters of the calendar year.

Subject to possible change the following dates have been set for the year 1942-43.

Registration for second, third and fourth classes, Saturday, June 13, 1942.

Summer quarter for these classes begins on Monday, June 15.

Registration for first class, Saturday, July 11, 1942.

Summer quarter begins Monday, July 13.

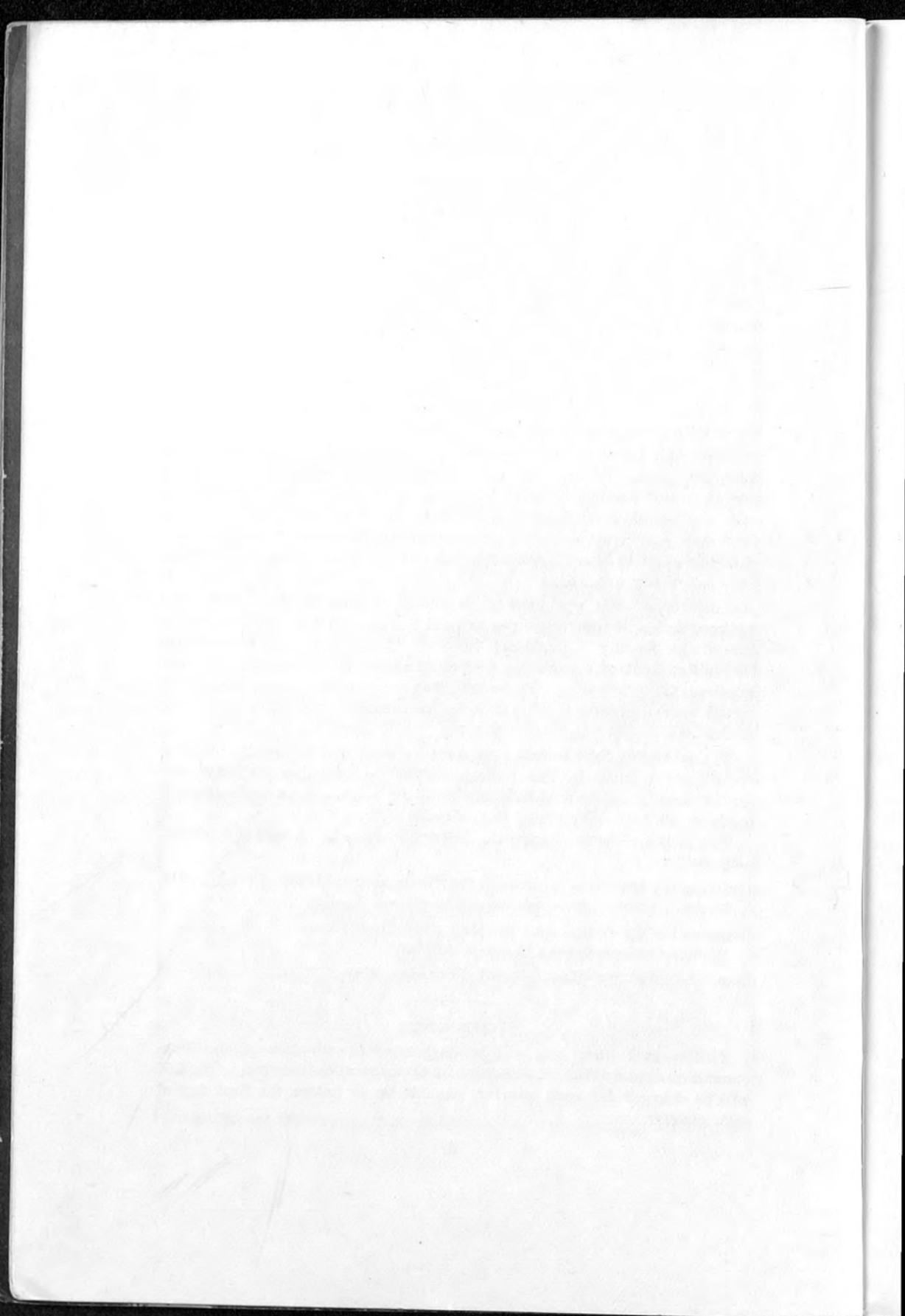
Commencement for Class of 1943, Thursday, May 27, 1943.

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### TUITION FEES

Tuition and other fees will be unchanged by adoption of the four-quarter program; that is, one-third of the normal tuition fee or \$166.67 will be charged for each quarter, payable on or before the first day of each quarter.







## THE CORPORATION

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MALVERN BRYAN CLOPTON

### *First Vice-President*

HARRY BROOKINGS WALLACE

### *Second Vice-President*

ALFRED LEE SHAPLEIGH

### *Directors*

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HARRY BROOKINGS WALLACE	WILSON LINN HEMINGWAY
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DANIEL KAYSER CATLIN	JOHN BALTHASAR STRAUCH
DANIEL NOYES KIRBY	EDGAR MONSANTO QUEENY
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ETHAN ALLEN HITCHCOCK SHEPLEY

### *Treasurer, and Secretary to the Corporation*

JOSEPH HENRY ZUMBALEN

Office in Robert S. Brookings Hall, Skinker and  
Lindell Boulevards

## OFFICERS OF GOVERNMENT AND INSTRUCTION<sup>1</sup>

GEORGE REEVES THROOP . . . . . *Bridge Chancellor of the University*  
A.B., DePauw University, 1901; A.M., 1903; Ph.D., Cornell University, 1905;  
LL.D., DePauw University, 1929; LL.D., University of Missouri, 1930.

WALTER EDWARD MCCOURT . . . . . *Assistant Chancellor of the University*  
A.B., Cornell University, 1904; A.M., 1905.

PHILIP ANDERSON SHAFFER . . . . . *Dean*  
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904; Sc.D.,  
University of Rochester, 1939.

FRANKLIN EDWARD WALTON . . . . . *Assistant Dean*  
B.S., Shurtleff College, 1923; M.D., Washington University, 1927.

WILLIAM BAHLMANN PARKER . . . . . *Registrar*  
A.B., University of Missouri, 1921.

### PROFESSORS

JOSEPH ERLANGER . . . . . *Professor of Physiology*  
Physiologist, Barnes and St. Louis Children's Hospitals.  
B.S., University of California, 1895; M.D., Johns Hopkins University, 1899;  
LL.D., University of California, 1932; Sc.D., University of Pennsylvania, 1936;  
Sc.D., University of Wisconsin, 1936; Sc.D., University of Michigan, 1937.

PHILIP ANDERSON SHAFFER . . . . . *Professor of Biological Chemistry*  
Chemist, Barnes and St. Louis Children's Hospitals.  
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904; Sc.D.,  
University of Rochester, 1939.

ROBERT JAMES TERRY . . . . . *Professor Emeritus of Anatomy*  
Anthropologist Emeritus, Barnes Hospital.  
M.D., Missouri Medical College, 1895; A.B., Washington University, 1901.

LEO LOEB . . . . . *Professor Emeritus of Pathology and  
Research Professor of Pathology*  
M.D., University of Zurich, 1896.

EVARTS AMBROSE GRAHAM . . . . . *Bixby Professor of Surgery*  
Surgeon in Chief, Barnes and St. Louis Children's Hospitals; Surgeon, St.  
Louis Maternity Hospital; Surgeon in Chief to Outpatients, University Clinics;  
Consulting Surgeon, Homer G. Phillips Hospital.  
A.B., Princeton University, 1904; M.D., Rush Medical College, 1907; M.S.,  
(hon.), Yale University, 1928; LL.D., Central College, 1926; Sc.D., University of  
Cincinnati, 1927; Sc.D., Princeton University, 1929; Sc.D., Western Reserve  
University, 1931; Sc.D. (hon.), University of Chicago, 1941.

OTTO HENRY SCHWARZ *Professor of Clinical Obstetrics and Gynecology*  
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hos-  
pitals; Consulting Gynecologist, St. Louis Children's Hospital; Obstetrician and  
Gynecologist to Outpatients, University Clinics; Consultant in Obstetrics and  
Gynecology, Homer G. Phillips Hospital.  
M.D., Washington University, 1913.

SHERWOOD MOORE . . . . . *Professor of Radiology*  
Roentgenologist, Barnes and St. Louis Maternity Hospitals; Radiologist, St.  
Louis Children's Hospital.  
M.D., Washington University, 1905.

LEE WALLACE DEAN . . . . . *Professor Emeritus of Otolaryngology*  
Otolaryngologist in Chief Emeritus, Barnes Hospital; Consulting Otolaryngolo-  
gist, St. Louis Children's and St. Louis Maternity Hospitals; Consulting Oto-  
laryngologist, Homer G. Phillips Hospital.  
B.S., University of Iowa, 1894; M.S., 1896; M.D., 1896.

<sup>1</sup> Arranged in groups in order of appointment, as of December, 1941.

- EDMUND VINCENT COWDRY** . . . . . *Professor of Anatomy*  
 Anthropologist, Barnes and St. Louis Children's Hospitals.  
 B.A., University of Toronto, 1909; Ph.D., University of Chicago, 1912.
- JACQUES JACOB BRONFENBRENNER** . . . . . *Professor of Bacteriology and Immunology and of Public Health*  
 Bacteriologist, St. Louis Children's Hospital.  
 Ph.D., Columbia University, 1912; Dr.P.H., Harvard University, 1919.
- GEORGE HOLMAN BISHOP** . . . . . *Professor of Biophysics*  
 A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.
- CARL F. CORI** . . . . . *Professor of Pharmacology*  
 M.D., University of Prague, 1920.
- LAWRENCE TYLER POST** . . . . . *Professor of Clinical Ophthalmology and Head of the Department*  
 Ophthalmologist in Chief, Barnes Hospital; Ophthalmologist, St. Louis Children's and St. Louis Maternity Hospitals; Ophthalmologist in Chief to Outpatients, University Clinics; Consulting Ophthalmologist, St. Louis City and Homer G. Phillips Hospitals.  
 A.B., Yale University, 1909; M.D., Johns Hopkins University, 1913.
- ALEXIS FRANK HARTMANN** . . . . . *Professor of Pediatrics and Head of the Department*  
 Physician in Chief, St. Louis Children's Hospital; Pediatrician in Chief, St. Louis Maternity Hospital; Pediatrician in Chief to Outpatients, University Clinics; Consultant in Pediatrics, St. Louis City and Homer G. Phillips Hospitals.  
 B.S., Washington University, 1919; M.S., 1921; M.D., 1921.
- JEAN VALJEAN COOKE** . . . . . *Professor of Pediatrics*  
 Associate Physician, St. Louis Children's Hospital; Associate Pediatrician, St. Louis Maternity Hospital; Physician and Section Chief (Pediatrics), University Clinics.  
 A.B., West Virginia University, 1903; A.B., Yale University, 1904; M.D., Johns Hopkins University, 1908.
- CARLYLE FERDINAND JACOBSEN** . . . . . *Professor of Medical Psychology*  
 Psychologist, Barnes and St. Louis Children's Hospitals; Consultant in Psychology, University Clinics; Consultant in Medical Psychology, Malcolm A. Bliss Psychiatric Institute.  
 A.B., University of Minnesota, 1924; Ph.D., 1928.
- DAVID MCKENZIE RIOCH** . . . . . *Professor of Neurology and Head of the Department of Neuropsychiatry*  
 Neurologist in Chief, Barnes Hospital; Neurologist, St. Louis Children's and St. Louis Maternity Hospitals; Neurologist in Chief, University Clinics; Visiting Physician in Neuropsychiatry (Section Head), St. Louis City Hospital; Consulting Physician and Section Director (Neuropsychiatry), Homer G. Phillips Hospital; Consulting Physician (Neurology), Malcolm A. Bliss Psychiatric Institute.  
 A.B., Butler College, 1920; M.D., Johns Hopkins University, 1924.
- ROBERT ALLAN MOORE** . . . . . *Edward Mallinckrodt Professor of Pathology*  
 Pathologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.  
 B.A., Ohio State University, 1921; M.S., 1927; M.D., 1928; Ph.D., Western Reserve University, 1930.
- WILLARD MYRON ALLEN** . . . . . *Professor of Obstetrics and Gynecology*  
 Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics; Consultant in Obstetrics and Gynecology, St. Louis City Hospital; Consultant in Obstetrics and Gynecology, Homer G. Phillips Hospital.  
 B.S., Hobart College, 1926; M.A., University of Rochester, 1929; M.D., 1932; Sc.D. (hon.), Hobart College, 1940.
- THEODORE EDWIN WALSH** . . . . . *Professor of Otolaryngology*  
 Otolaryngologist in Chief, Barnes Hospital; Otolaryngologist, St. Louis Children's and St. Louis Maternity Hospitals; Otolaryngologist in Chief to Outpatients, University Clinics; Consulting Otolaryngologist, St. Louis City Hospital; Visiting Otolaryngologist, Homer G. Phillips Hospital.  
 B.A., Cambridge University, 1921; M.R.C.S., L.R.C.P., London, 1925.

- ARTHUR LLEWELYN HUGHES . . . . . *Consulting Physician*  
B.Sc., Liverpool University, 1906; M.Sc., 1907; B.A., Cambridge University, 1910; D.Sc., 1912.
- JOHN VINCENT LAWRENCE . . . . . *Director of University Clinics and Assistant Professor of Medicine*  
Assistant Physician, Barnes Hospital; Physician and Section Chief (Health and Diagnostic), University Clinics.  
B.S., University of Chicago, 1917; M.D., Rush Medical College, 1924.
- HARRY STURGEON CROSSEN . . . . . *Professor Emeritus of Clinical Obstetrics and Gynecology*  
Consultant in Obstetrics and Gynecology, Barnes and St. Louis Maternity Hospitals; Consultant in Gynecology, St. Louis Children's Hospital.  
M.D., Washington University, 1892.
- HUGO EHRENFEST . . . . . *Professor Emeritus of Clinical Obstetrics and Gynecology*  
Associate Obstetrician and Gynecologist, Barnes Hospital; Consultant in Obstetrics and Gynecology, St. Louis Maternity Hospital.  
M.D., University of Vienna, 1894.
- MARTIN FEENEY ENGMAN . . . . . *Professor Emeritus of Clinical Dermatology*  
Dermatologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.  
M.D., University of New York, 1891.
- BORDEN SMITH VEEDER . . . . . *Professor of Clinical Pediatrics*  
Consulting Pediatrician, St. Louis Maternity Hospital; Consulting Physician, St. Louis Children's Hospital.  
M.D., University of Pennsylvania, 1907.
- SIDNEY ISAAC SCHWAB . . . . . *Professor of Clinical Neurology*  
Neurologist, Barnes and St. Louis Maternity Hospitals; Consulting Neurologist, St. Louis Children's Hospital; Consultant in Neurology, University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.  
M.D., Harvard University, 1896.
- ERNEST SACHS . . . . . *Professor of Clinical Neurological Surgery*  
Associate Surgeon, Barnes and St. Louis Children's Hospitals; Consulting Surgeon, St. Louis Maternity Hospital.  
A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904.
- MAJOR GABRIEL SEELIG . . . . . *Professor of Clinical Surgery*  
Assistant Surgeon, Barnes Hospital.  
A.B., Harvard University, 1896; M.D., Columbia University, 1900.
- WILLIAM EWING SHAHAN . . . . . *Professor of Clinical Ophthalmology*  
Associate Ophthalmologist, Barnes Hospital; Consulting Ophthalmologist, St. Louis Children's Hospital; Ophthalmologist to Outpatients, University Clinics.  
A.B., Washington University, 1901; M.D., 1904; A.M., 1912.
- FREDERICK JOSEPH TAUSSIG . . . . . *Professor of Clinical Obstetrics and Gynecology*  
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.  
A.B., Harvard University, 1893; M.D., St. Louis Medical College, 1898.
- VILRAY PAPIN BLAIR . . . . . *Professor Emeritus of Clinical Surgery*  
Associate Surgeon, Barnes and St. Louis Children's Hospitals; Consulting Surgeon, St. Louis Maternity Hospital.  
A.M., Christian Brothers College, 1890; M.D., Washington University, 1893.
- MALVERN BRYAN CLOPTON . . . . . *Professor of Clinical Surgery*  
Associate Surgeon, Barnes and St. Louis Maternity Hospitals; Consulting Surgeon, St. Louis Children's Hospital.  
M.D., University of Virginia, 1897.
- ALBERT ERNEST TAUSSIG . . . . . *Professor Emeritus of Clinical Medicine*  
Assistant Physician, Barnes Hospital; Consulting Physician, St. Louis City Hospital.  
A.B., Harvard University, 1891; M.D., St. Louis Medical College, 1894.

**MEYER WIENER** . . . . . *Professor of Clinical Ophthalmology*  
Associate Ophthalmologist, Barnes Hospital; Consulting Ophthalmologist, St. Louis Children's Hospital; Ophthalmologist to Outpatients, University Clinics. M.D., Missouri Medical College, 1896.

**JOHN ALBERT KEY** . . . . . *Professor of Clinical Orthopedic Surgery*  
Associate Surgeon, Barnes and St. Louis Children's Hospitals; Consulting Surgeon, St. Louis Maternity Hospital; Surgeon and Section Chief (Orthopedic), University Clinics; Visiting Surgeon and Section Head (Orthopedic), St. Louis City Hospital; Consulting Surgeon (Orthopedic), Homer G. Phillips Hospital. M.D., Johns Hopkins University, 1918.

**GRANDISON DELANEY ROYSTON** . . . *Professor of Clinical Obstetrics and Gynecology*  
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Associate Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics. M.D., Washington University, 1907.

**ARTHUR WALTER PROETZ** . . . . . *Professor of Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Maternity Hospitals; Associate Otolaryngologist, St. Louis Children's Hospital; Otolaryngologist to Outpatients, University Clinics; Consulting Otolaryngologist, St. Louis City Hospital. A.B., Washington University, 1910; M.D., 1912.

**DALTON KEATS ROSE** . . . *Professor of Clinical Genitourinary Surgery*  
Associate Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon, St. Louis Maternity Hospital; Urologist in Chief, University Clinics; Consulting Surgeon (Urology), Homer G. Phillips Hospital. M.D., Washington University, 1915.

**THOMAS KENNETH BROWN** . . . . . *Professor of Clinical Obstetrics and Gynecology*  
Assistant Obstetrician and Gynecologist, Barnes Hospital; Associate Gynecologist, St. Louis Children's Hospital; Associate Obstetrician and Gynecologist, St. Louis Maternity Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist (Section Head), St. Louis City Hospital; Chief of Staff and Consulting Obstetrician and Gynecologist (Section Director), Homer G. Phillips Hospital. B.S., University of Wisconsin, 1921; M.S., 1922; M.D., Washington University, 1924.

**HARRY WEBSTER LYMAN** . . . . . *Professor of Clinical Otolaryngology*  
Associate Otolaryngologist, St. Louis Children's Hospital; Assistant Otolaryngologist, Barnes and St. Louis Maternity Hospitals; Otolaryngologist to Outpatients, University Clinics. M.D., St. Louis College of Physicians and Surgeons, 1895.

**HARRY LOUIS ALEXANDER** . . . . . *Professor of Clinical Medicine and Acting Head of the Department of Medicine*  
Acting Physician in Chief, Barnes and St. Louis Maternity Hospitals; Physician in Chief to Outpatients, University Clinics; Consulting Physician, St. Louis City Hospital; Consulting Physician, Homer G. Phillips Hospital. A.B., Williams College, 1910; M.D., Columbia University, 1914.

**WILLARD BARTLETT** . . . . . *Professor Emeritus of Clinical Surgery*  
A.B., Illinois College, 1892; A.M., 1898; D.Sc., 1926; M.D., Marion Sims College of Medicine, 1895.

**JAMES PERCY BAUMBERGER**<sup>1</sup> . . . . . *Visiting Professor of Cytology*  
B.S., University of California, 1914; M.S., Harvard University, 1916; D.Sc., 1918.

**ANTON JULIUS CARLSON**<sup>2</sup> . . . . . *Visiting Professor of Physiology*  
B.S., Augustana College, 1898; A.M., 1899; LL.D., 1923; Ph.D., Stanford University, 1902.

**VIRGIL LOEB** . . . . . *Lecturer in Stomatology*  
Consulting Stomatologist, St. Louis Children's Hospital; Stomatologist, St. Louis Maternity Hospital. A.B., University of Missouri, 1903; M.D., St. Louis University, 1906; D.D.S., 1906.

<sup>1</sup> January 1 to December 20, 1941.

<sup>2</sup> November 7 to December 6, 1941.



## ASSOCIATE PROFESSORS

- WARREN PHILO ELMER . . . *Associate Professor of Clinical Medicine*  
Assistant Physician, Barnes Hospital.  
M.D., University of Michigan, 1903; B.S., St. Louis University, 1906.
- HARVEY LESTER WHITE<sup>1</sup> . . . *Associate Professor of Physiology*  
B.S., Washington University, 1918; M.D., 1920.
- WILLIAM FREDERIC HARDY . . . *Associate Professor of Clinical Ophthalmology*  
Assistant Ophthalmologist, Barnes Hospital; Consulting Ophthalmologist, St. Louis Children's Hospital; Ophthalmologist to Outpatients, University Clinics.  
M.D., Washington University, 1901.
- GLOVER H. COPHER . . . *Associate Professor of Clinical Surgery*  
Assistant Surgeon, Barnes Hospitals; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals.  
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- WILLIAM HARWOOD OLMSTED . . . *Associate Professor of Clinical Medicine*  
Assistant Physician, Barnes Hospital; Consulting Physician, St. Louis City Hospital.  
B.S., Coe College, 1909; M.D., Johns Hopkins University, 1913.
- MILDRED TROTTER . . . *Associate Professor of Anatomy*  
A.B., Mount Holyoke College, 1920; M.S., Washington University, 1921; Ph.D., 1924.
- ARTHUR SCOTT GILSON, JR. . . . *Associate Professor of Physiology*  
B.S., Dartmouth College, 1919; A.M., Harvard University, 1922; Ph.D., 1924.
- LOUIS A. JULIANELLE . . . *Associate Professor of Applied Bacteriology and Immunology in Ophthalmology*  
Associate Bacteriologist, St. Louis Children's Hospital.  
B.A., Yale University, 1917; M.S., 1919; Ph.D., University of Pennsylvania, 1922.
- DREW WILLIAM LUTEN . . . *Associate Professor of Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
A.B., University of Kentucky, 1901; M.D., Johns Hopkins University, 1911.
- JOSEPH WILLIAM LARIMORE . . . *Associate Professor of Clinical Medicine*  
Assistant Roentgenologist, Barnes Hospital; Assistant Radiologist, St. Louis Children's Hospital.  
A.B., DePauw University, 1908; M.D., Washington University, 1913.
- GORDON H. SCOTT . . . . . *Associate Professor of Histology*  
A.B., Southwestern College, 1922; A.M., University of Minnesota, 1925; Ph.D., 1926.
- THEODORE C. HEMPELMANN . . . *Associate Professor of Clinical Pediatrics*  
Consulting Physician, St. Louis Children's Hospital; Consulting Pediatrician, St. Louis Maternity Hospital.  
M.D., Washington University, 1908.
- JAMES LEE O'LEARY . . . . . *Associate Professor of Neuroanatomy*  
B.S., University of Chicago, 1921; Ph.D., 1928; M.D., 1931.
- FREDERICK ENO WOODRUFF . . . . *Associate Professor of Clinical Ophthalmology*  
Consulting Ophthalmologist, St. Louis Children's Hospital; Assistant Ophthalmologist, Barnes Hospital; Ophthalmologist to Outpatients, University Clinics.  
M.D., Missouri Medical College, 1897; A.B., Washington University, 1923.
- ROBERT ELMAN . . . . . *Associate Professor of Clinical Surgery*  
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon and Section Chief (General Surgery), University Clinics; Visiting Surgeon, St. Louis City Hospital; Visiting Surgeon (Section Director), Homer G. Phillips Hospital.  
B.S., Harvard University, 1919; M.D., Johns Hopkins University, 1922.

<sup>1</sup> On leave of absence for military duty.

**PETER HEINBECKER** . . . . . *Associate Professor of Clinical Surgery*  
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics; Visiting Surgeon and Section Head (General Surgery), St. Louis City Hospital.  
B.A., McGill University, 1918; M.D., 1921.

**JAMES BARRETT BROWN** . . . . . *Associate Professor of Clinical Surgery*  
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics; Visiting Surgeon and Section Head (Plastic), St. Louis City Hospital; Consulting Surgeon (Plastic), Homer G. Phillips Hospital.  
M.D., Washington University, 1923.

**HUGH McCULLOCH** . . . . . *Associate Professor of Clinical Pediatrics*  
Associate Pediatrician, St. Louis Maternity Hospital; Associate Physician, St. Louis Children's Hospital.  
A.B., University of Arkansas, 1908; M.D., Johns Hopkins University, 1912.

**HELEN TREDWAY GRAHAM** . . . . . *Associate Professor of Pharmacology*  
A.B., Bryn Mawr College, 1911; A.M., 1912; Ph.D., University of Chicago, 1915.

**MARTIN HAYWARD POST** . . . . . *Associate Professor of Clinical Ophthalmology*  
Assistant Ophthalmologist, Barnes and St. Louis Maternity Hospitals; Consulting Ophthalmologist, St. Louis Children's Hospital; Ophthalmologist to Outpatients, University Clinics.  
A.B., Amherst College, 1908; M.D., Johns Hopkins University, 1912.

**NATHAN ANTHONY WOMACK** . . . . . *Associate Professor of Clinical Surgery*  
Assistant Surgeon, Barnes and St. Louis Maternity Hospitals; Associate Surgeon, St. Louis Children's Hospital; Surgeon to Outpatients, University Clinics; Visiting Surgeon, St. Louis City Hospital.  
B.S., University of North Carolina, 1922; M.D., Washington University, 1924.

**LEONARD THOMPSON FURLOW** . . . . . *Associate Professor of Clinical Neurological Surgery*  
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Visiting Surgeon and Section Head (Neurological), St. Louis City Hospital; Consulting Surgeon (Neurological), Homer G. Phillips Hospital.  
B.S., Emory University, 1923; M.D., 1925.

**ROBERT LYSTER THORNTON** . . . . . *Physicist in Charge of the Cyclotron of the Radiological Institute*  
B.S., McGill University, 1930; Ph.D., 1936.

**FRENCH KELLER HANSEL** . . . . . *Associate Professor of Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics.  
M.D., St. Louis University, 1918; M.S., University of Minnesota, 1923.

**MA WEN CHAO**<sup>1</sup> . . . . . *Visiting Associate Professor of Anatomy*  
M.D., Peiping Union Medical College, 1915.

**EDWARD GRAFTON MCGAVRAN** . . . . . *Associate Professor of Public Health*  
A.B., Butler University, 1924; M.D., Harvard University, 1928; M.P.H., 1934.

#### ASSISTANT PROFESSORS

**ARTHUR OSCAR FISHER** . . . . . *Assistant Professor of Clinical Surgery*  
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.  
A.B., University of Wisconsin, 1905; M.D., Johns Hopkins University, 1909.

**FRANK HENRY EWERHARDT** . . . . . *Assistant Professor of Physical Therapeutics*  
Physician in Charge of Physical Therapeutics, Barnes and St. Louis Children's Hospitals; Consulting Physician (Physical Therapy), Homer G. Phillips Hospital; Surgeon to Outpatients (Orthopedic), University Clinics.  
M.D., Washington University, 1910.

<sup>1</sup> February 15 to August 1, 1941.



- MILLARD FILLMORE ARBUCKLE . . . . . *Assistant Professor of Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1909.
- ARTHUR MAXWELL ALDEN . . . . . *Assistant Professor of Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics; Consulting Otolaryngologist, St. Louis City Hospital.  
A.B., University of Oklahoma, 1907; A.M., 1909; M.D., St. Louis University, 1915.
- HAROLD ATEN BULGER . . . . . *Assistant Professor of Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician (Diabetes and Metabolic Diseases), Homer G. Phillips Hospital.  
B.S., Ohio State University, 1916; M.D., Harvard University, 1920.
- CHARLES ALLEN STONE . . . . . *Assistant Professor of Clinical Orthopedic Surgery*  
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients (Orthopedic), University Clinics.  
B.S., Blackburn College, 1904; M.D., Washington University, 1908.
- MAX WILLIAM JACOBS . . . . . *Assistant Professor of Clinical Ophthalmology*  
Assistant Ophthalmologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Ophthalmologist to Outpatients, University Clinics.  
A.B., Washington University, 1902; M.D., 1905.
- DUFF SHEDERIC ALLEN . . . . . *Assistant Professor of Clinical Surgery*  
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.  
M.D., Washington University, 1919.
- FREDERICK OSCAR SCHWARTZ . . . . . *Assistant Professor of Clinical Ophthalmology*  
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics.  
M.D., Washington University, 1910.
- RICHARD SIMON WEISS . . . . . *Assistant Professor of Clinical Dermatology*  
Assistant Dermatologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Dermatologist in Chief to Outpatients, University Clinics.  
M.D., Washington University, 1909.
- ETHEL RONZONI BISHOP . . . . . *Assistant Professor of Biological Chemistry*  
B.S., Mills College, 1913; A.M., Columbia University, 1914; Ph.D., University of Wisconsin, 1922.
- FRANK POWELL MCNALLEY . . . . . *Assistant Professor of Clinical Obstetrics and Gynecology*  
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics.  
B.S., Washington University, 1915; M.D., 1917.
- CHARLES DARRELL O'KEEFE . . . . . *Assistant Professor of Clinical Obstetrics and Gynecology*  
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.  
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- LAWRENCE DORLAND THOMPSON . . . . . *Assistant Professor of Clinical Medicine*  
Assistant Physician, Barnes Hospital.  
B.S., Rutgers College, 1917; M.D., Cornell University, 1922.
- ISAAC DEE KELLEY, JR. . . . . *Assistant Professor of Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics.  
B.S., St. Louis University, 1903; M.D., 1908.

**MARGARET GLADYS SMITH** . . . . *Assistant Professor of Pathology*  
Assistant Pathologist, Barnes Hospital; Associate Pathologist, St. Louis Children's and St. Louis Maternity Hospitals.  
A.B., Mount Holyoke College, 1918; M.D., Johns Hopkins University, 1922.

**ANDREW BLUCHER JONES** . . *Assistant Professor of Clinical Neurology*  
Assistant Neurologist, Barnes and St. Louis Children's Hospitals; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician (Neuropsychiatry), St. Louis City Hospital; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.  
M.D., Vanderbilt University, 1916.

**RICHARD PADDOCK** . . *Assistant Professor of Clinical Obstetrics and Gynecology*  
Assistant Obstetrician and Gynecologist, Barnes Hospital; Assistant Gynecologist, St. Louis Children's Hospital; Associate Obstetrician and Gynecologist, St. Louis Maternity Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics.  
M.D., Washington University, 1921.

**GEORGE EDWIN HOURN** . *Assistant Professor of Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals.  
D.D.S., University of Minnesota, 1903; M.D., Washington University, 1913.

**CLARENCE HARRISON CREGO, JR.** . . . *Assistant Professor of Clinical Orthopedic Surgery*  
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.  
B.S., Union University, 1921; M.D., University of Michigan, 1923.

**FRANK URBAN** . . . . *Assistant Professor of Biological Chemistry*  
B.S., University of Wisconsin, 1925; Ph.D., 1928.

**OTTO ST. CLAIR KREBS** . *Assistant Professor of Clinical Obstetrics and Gynecology*  
Assistant Obstetrician and Gynecologist, Barnes Hospital; Associate Obstetrician and Gynecologist, St. Louis Maternity Hospital.  
B.S., Washington University, 1917; M.D., 1919.

**BENNETT YOUNG ALVIS** . *Assistant Professor of Clinical Ophthalmology*  
Assistant Ophthalmologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist, St. Louis City Hospital.  
B.S., St. Louis University, 1916; M.D., 1918.

**BERNARD JOHN MCMAHON** . . . . . *Assistant Professor of Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics.  
A.B., St. Louis University, 1913; M.D., 1917; M.Sc. (Med.), Graduate School of Medicine, University of Pennsylvania, 1926.

**WILLIAM BRYAN KOUNTZ** . . *Assistant Professor of Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
M.D., Washington University, 1926.

**GEORGE ARTHUR SEIB** . . . . . *Assistant Professor of Anatomy*  
A.B., Washington University, 1924; M.D., 1928.

**JAMES BRAY COSTEN** . *Assistant Professor of Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics; Consulting Otolaryngologist, St. Louis City Hospital.  
A.B., University of Arkansas, 1916; M.D., Washington University, 1922.

**ARCHIE DREYFUS CARR** . . *Assistant Professor of Clinical Neurology*  
Assistant Neurologist, Barnes and St. Louis Children's Hospitals; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.  
B.S., Washington University, 1918; M.D., 1921.

**PHILIP LEONARD VARNEY** . . *Assistant Professor of Bacteriology and Immunology and of Public Health*  
B.S., Oregon Agricultural College, 1923; M.S., Washington University, 1926; Ph.D., 1933.

**DOROTHY WOLFF** . . . . *Assistant Professor of Applied Anatomy in Otolaryngology*

A.B., Smith College, 1918; A.M., University of Michigan, 1928; Ph.D., Washington University, 1933.

**THEODORE PREWITT BROOKES** . . . . *Assistant Professor of Clinical Orthopedic Surgery*

Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon (Orthopedic), St. Louis City Hospital.  
M.D., Washington University, 1909.

**ROBERT JAMES CROSSEN** . . *Assistant Professor of Clinical Obstetrics and Gynecology*

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Gynecologist, St. Louis Children's Hospital.  
A.B., Oberlin College, 1921; M.D., Washington University, 1925.

**JULIUS JENSEN** . . . . . *Assistant Professor of Clinical Medicine*

Assistant Physician, Barnes Hospital; Associate Physician, St. Louis Maternity Hospital; Visiting Physician, St. Louis City Hospital.  
M.R.C.S., England, 1922; L.R.C.P., University of London, 1923; Ph.D., University of Minnesota, 1929.

**ROGERS DEAKIN** . . . . *Assistant Professor of Clinical Genitourinary Surgery*

Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients (Genitourinary), University Clinics; Visiting Surgeon and Section Director (Urology), Homer G. Phillips Hospital.  
M.D., Washington University, 1922.

**CECIL MARVIN CHARLES** . . . . *Assistant Professor of Anatomy and Assistant in Clinical Medicine*

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician (Medical Clinic), Homer G. Phillips Hospital.  
A.B., University of Kentucky, 1926; A.M., 1927; Ph.D., Washington University, 1929; M.D., 1933.

**CYRIL MITCHELL MACBRYDE** . *Assistant Professor of Clinical Medicine*

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician, St. Louis City Hospital.  
A.B., Washington University, 1926; M.D., Harvard University, 1930.

**WENDELL GARRISON SCOTT** . *Assistant Professor of Clinical Radiology*

Assistant Roentgenologist, Barnes Hospital; Assistant Radiologist, St. Louis Children's Hospital.  
A.B., University of Colorado, 1928; M.D., Washington University, 1932.

**THOMAS PALMER FINDLEY, JR.**<sup>1</sup> . . . *Assistant Professor of Clinical Medicine*

Assistant Physician, Barnes Hospital; Visiting Physician (Section Head), St. Louis City Hospital.  
A.B., Princeton University, 1923; M.D., University of Chicago, 1927.

**CARL VERNON MOORE** . . . . . *Assistant Professor of Medicine*

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician, St. Louis City Hospital; Consulting Physician (Hematology), Homer G. Phillips Hospital.  
A.B., Washington University, 1928; M.D., 1932.

**WARREN ROBERT RAINEY**<sup>2</sup> . . . *Assistant Professor of Clinical Surgery*

Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics; Consulting Surgeon (Proctology), Homer G. Phillips Hospital.  
M.D., Northwestern University, 1910.

**VAL BEYER SATTERFIELD** . . *Assistant Professor of Clinical Psychiatry*

Assistant Neurologist, Barnes Hospital; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.  
B.S., Washington University, 1922; M.D., 1924.

<sup>1</sup> Resigned December 31, 1941.

<sup>2</sup> Deceased July 28, 1941.

**ALFRED D. HERSHEY . . . Assistant Professor of Bacteriology and Immunology**

Ph.D., Michigan State College, 1934.

**LOUIS LEON TUREEN . . . Assistant Professor of Clinical Neurology**

Assistant Neurologist, Barnes Hospital; Physician and Section Chief, (Neurology), University Clinics; Visiting Physician (Neuropsychiatry), Malcolm A. Bliss Psychiatric Institute; Visiting Neurologist, Homer G. Phillips Hospital.

B.S., Washington University, 1925; M.D., 1927.

**FREDERICK AUGUSTUS JOSTES . . . Assistant Professor of Clinical Orthopedic Surgery**

Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon (Orthopedic), St. Louis City Hospital.

B.S., Washington University, 1918; M.D., 1920.

**GEORGE DAVID KETTELKAMP . Assistant Professor of Clinical Medicine**

A.B., Central Wesleyan College, 1910; M.D., Washington University, 1914.

**WILLIAM MAHLON JAMES . . . Assistant Professor of Clinical Ophthalmology**

Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics.

B.S., Drury College, 1923; M.D., Washington University, 1926.

**ALFRED J. CONE . . . Assistant Professor of Clinical Otolaryngology**

Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics.

B.S., State University of Iowa, 1921; M.D., 1923; M.S., 1926.

**JOHN E. HOBBS . . . Assistant Professor of Clinical Obstetrics and Gynecology**

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics.

A.B., Southwest Missouri State Teachers' College, 1923; M.D., Washington University, 1927.

**HUBERT BEAUFORT PEUGNET<sup>1</sup> . . . Assistant Professor of Physiology**

A.B., St. Louis University, 1924; M.D., 1930.

**EDGAR ALLAN BLAIR<sup>1</sup> . . . Assistant Professor of Physiology**

A.B., Vanderbilt University, 1925; M.S., 1927; Ph.D., Washington University, 1938.

**HARRY NAYLOR GLICK . Assistant Professor of Clinical Otolaryngology**

Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals.

A.B., Cornell University, 1916; M.D., St. Louis University, 1922.

**EARL H. PERRY . Assistant Professor of Military Science and Tactics**

M.D., University of Pennsylvania (MC), 1903.

**HAMILTON BURROWS GREAVES ROBINSON . . . Assistant Professor of Pathology**

D.D.S., University of Pennsylvania, 1934; M.S., University of Rochester, 1936.

**CARL REINARD WEGNER . . Assistant Professor of Clinical Obstetrics and Gynecology**

Assistant Obstetrician and Gynecologist, St. Louis Maternity and Barnes Hospitals; Assistant Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics; Special Consultant in Obstetrics and Gynecology (Toxemias of Pregnancy), St. Louis City Hospital; Consultant in Obstetrics and Gynecology, Homer G. Phillips Hospital.

A.B., North Central College, 1922; M.D., University of Nebraska, 1926.

**DANIEL WILBUR MYERS . . Assistant Professor of Clinical Medicine**

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician, St. Louis City Hospital; Consulting Physician (Chest) and Section Director (Tuberculosis), Homer G. Phillips Hospital.

A.B., University of Michigan, 1929; M.D., 1932.

<sup>1</sup> On leave of absence for military duty.

- SAMUEL RUSSELL WARSON . . . . . *Assistant Professor of Psychiatry*  
 Assistant Psychiatrist, Barnes Hospital; Consultant in Psychiatry to Outpatients, University Clinics; Visiting Physician (Neuropsychiatry), St. Louis City Hospital; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.  
 A.B., McGill University, 1930; M.D., 1934.
- GERALDINE LERMIT . . . . . *Lecturer on Occupational Therapy*  
 A.B., Wellesley College, 1906; Ph.M., University of Chicago, 1907.
- RUTH ELIZABETH MARTIN . . . . . *Dentist to the Department of Pediatrics*  
 D.D.S., Washington University, 1923.

## RESEARCH ASSOCIATES

- SAMUEL HOWARD BARTLEY . . . . . *Research Associate in Biophysics and Psychology*  
 B.S., Greenville College, 1923; A.M., University of Kansas, 1923; Ph.D., 1931.
- GERTY T. CORI . . . . . *Research Associate in Pharmacology*  
 M.D., University of Prague, 1920.
- VALENTINA SUNTZEFF . . . . . *Research Associate in Cytology*  
 M.D., Women's Medical Institute, Petrograd, Russia, 1917.
- ROSS C. MACCARDLE . . . . . *Research Associate in Cytology and Dermatology and Instructor in Anatomy*  
 B.S., University of Michigan, 1927; Ph.D., Brown University, 1932.
- HERMAN MORITZ KALCKAR . . . . . *Research Associate in Radiology*  
 M.D., University of Copenhagen, 1939.
- WILLIAM LOYAL SIMPSON . . . . . *Research Associate in Cytology*  
 S.B., University of Chicago, 1934; Ph.D., 1938.
- WILLIAM CRAMER . . . . . *Research Associate in Cytology*  
 Ph.D., University of Berlin, 1900; D.Sc., University of Edinburgh, 1907; M.R.C.S., L.R.C.P., London, 1916.
- SEVERO OCHOA . . . . . *Research Associate and Instructor in Pharmacology*  
 B.M., University of Madrid, 1928; M.D., 1929.
- ARDA ALDEN GREEN<sup>1</sup> . . . . . *Research Associate in Pharmacology*  
 A.B., University of California, 1921; M.D., Johns Hopkins University, 1927.

## INSTRUCTORS

- WALTER BAUMGARTEN . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital.  
 A.B., Johns Hopkins University, 1894; M.D., St. Louis Medical College, 1896.
- JEROME EPSTEIN COOK . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
 M.D., Washington University, 1905.
- LLEWELLYN SALE . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician, St. Louis City Hospital.  
 M.D., Washington University, 1907.
- ADRIEN BLEYER . . . . . *Instructor in Clinical Pediatrics*  
 Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.  
 M.D., Missouri Medical College, 1899.
- LOUIS HENRY HEMPELMANN . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital.  
 M.D., St. Louis Medical College, 1896.
- WALTER FISCHER . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
 A.B., Harvard University, 1902; M.D., Washington University, 1905.

<sup>1</sup> Effective August 1, 1941.



- ADOLPH HENRY CONRAD** . . . . . *Instructor in Clinical Dermatology*  
 Assistant Dermatologist, Barnes Hospital; Physician to Outpatients (Dermatology), University Clinics.  
 M.D., St. Louis University, 1906.
- FRANK DE VORE GORHAM** . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital.  
 A.B., Indiana University, 1910; M.D., Washington University, 1912.
- ADOLPH GEORGE SCHLOSSSTEIN** . . . . . *Instructor in Clinical Obstetrics and Gynecology*  
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.  
 M.D., St. Louis Medical College, 1894.
- CHARLES HERMANN EYERMANN** . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital, Consulting Physician, St. Louis City Hospital; Physician and Section Chief (Allergy), University Clinics.  
 M.D., St. Louis University, 1911.
- ARTHUR EDGAR STRAUSS** . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Physician and Section Chief (Cardiovascular), University Clinics.  
 S.B., Harvard University, 1912; M.D., 1917.
- PARK JERAULD WHITE** . . . . . *Instructor in Clinical Pediatrics*  
 Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.  
 A.B., Harvard University, 1913; M.D., Columbia University, 1917.
- SAMUEL BECKER GRANT** . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital.  
 B.S., Washington University, 1918; M.D., 1920.
- PAUL JOHN ZENTAY** . . . . . *Instructor in Clinical Pediatrics*  
 Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Visiting Pediatrician, St. Louis City Hospital.  
 M.D., University of Kolozsvár, 1914.
- LEE DE CADY** . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
 A.B., University of Missouri, 1918; A.M., Washington University, 1921; M.D., 1922.
- PAUL EDWARD KUBITSCHKE** . . . . . *Instructor in Child Psychiatry and in Clinical Pediatrics*  
 Assistant Neurologist, Barnes Hospital; Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.  
 B.S., Creighton University, 1918; M.D., 1922; D.Sc., University of Pennsylvania, 1928.
- WAYNE ARTHUR RUPE** . . . . . *Instructor in Clinical Pediatrics*  
 Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Visiting Pediatrician (Section Director), Homer G. Phillips Hospital.  
 A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- ALFRED GOLDMAN** . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
 A.B., Washington University, 1916; M.D., 1920.
- HIRAM SHAW LIGGETT** . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital.  
 M.D., Washington University, 1920.
- CHARLES WILLIAM DUDEN** . . . . . *Instructor in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Associate Physician, St. Louis Maternity Hospital.  
 M.D., Washington University, 1926.
- IRENE KOECHIG FREIBERG** . . . . . *Instructor in Biological Chemistry*  
 A.B., Washington University, 1912; A.M., 1913.

**JOSEPH FRANCIS BREDECK . . . *Instructor in Clinical Medicine and  
Lecturer in Public Health Administration***

Assistant Physician, Barnes Hospital.  
A.B., Christian Brothers College, 1910; M.D., Washington University, 1914;  
D.P.H., University of Pennsylvania, 1917.

**ANTHONY BIGELOW DAY . . . *Instructor in Clinical Medicine***

Assistant Physician, Barnes Hospital.  
B.S., Harvard University, 1913; M.D., Washington University, 1919.

**CHARLES DRABKIN . *Instructor in Clinical Obstetrics and Gynecology***

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics.  
A.B., Stanford University, 1922; M.D., Washington University, 1924.

**HOWARD A. RUSK . . . *Instructor in Clinical Medicine***

Assistant Physician, Barnes Hospital.  
A.B., University of Missouri, 1923; M.D., University of Pennsylvania, 1925.

**ANNE MACGREGOR PERLEY . . *Instructor in Biological Chemistry in  
Pediatrics***

Assistant Chemist in Metabolism, St. Louis Children's Hospital.  
A.B., Grinnell College, 1927; A.M., University of Nebraska, 1929.

**OSCAR CHARLES ZINK . . . *Instructor in Clinical Radiology***

Assistant Roentgenologist, Barnes Hospital; Assistant Radiologist, St. Louis Children's Hospital.  
M.D., Washington University, 1921.

**JOSEPH HOY SANFORD . *Instructor in Clinical Genitourinary Surgery***

Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.  
M.D., Tulane Medical College, 1908.

**OTTO JULIUS WILHELMI . *Instructor in Clinical Genitourinary Surgery***

Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients (Genitourinary), University Clinics; Visiting Surgeon (Genitourinary), St. Louis City Hospital.  
B.S., Washington University, 1915; M.D., St. Louis University, 1917.

**HENRY SPENCE BROOKES, JR. . . *Instructor in Clinical Surgery***

Assistant Surgeon, Barnes Hospital; Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.  
M.D., Washington University, 1917.

**J. G. PROBSTEN . . . *Instructor in Clinical Surgery***

Assistant Surgeon, Barnes Hospital; Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.  
M.D., Loyola University, 1917.

**CARLISS MALONE STROUD . . . *Instructor in Clinical Medicine***

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital; Consulting Physician (Allergy), Homer G. Phillips Hospital.  
B.S., University of Mississippi, 1924; M.D., Washington University, 1926.

**LOUIS F. AITKEN . . . *Instructor in Clinical Medicine***

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
B.S., University of Illinois, 1923; M.D., Washington University, 1927.

**J. TED JEAN . *Instructor in Clinical Medicine and Physician to Medical  
and Dental Students***

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
A.B., Indiana University, 1924; M.D., Washington University, 1928.

**LAWRENCE GOLDMAN . . . *Instructor in Clinical Pediatrics***

Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.  
A.B., Washington University, 1924; M.D., 1928.



**GROVER BERNARD LIESE . . . . . *Instructor in Clinical Obstetrics and Gynecology***

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.

A.B., Real-Gymnasium, Cassel, Germany, 1910; M.D., University of Heidelberg, 1918.

**DUDLEY REEVES SMITH . . . . . *Instructor in Clinical Obstetrics and Gynecology***

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, St. Louis City Hospital.

M.D., Washington University, 1923.

**HOWARD ROMMEL HILDRETH . . . . . *Instructor in Clinical Ophthalmology***

Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics.

M.D., Washington University, 1928.

**CARL CONRAD BEISBARTH . . . . . *Instructor in Clinical Ophthalmology***

Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics.

B.S., St. Louis University, 1924; M.D., 1926.

**WILLIAM GOODWIN COLEMAN . . . . . *Instructor in Clinical Dermatology***

Assistant Dermatologist, Barnes Hospital; Physician to Outpatients (Dermatology), University Clinics; Visiting Physician (Dermatology), St. Louis City Hospital.

B.S., Washington University, 1917; M.D., 1919.

**CLINTON WELSH LANE . . . . . *Instructor in Clinical Dermatology***

Assistant Dermatologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Physician to Outpatients (Dermatology), University Clinics; Visiting Physician and Section Head (Dermatology), St. Louis City Hospital.

A.B., St. Mary's College (Kansas), 1916; M.D., St. Louis University, 1921.

**SAMUEL DAVID SOULE . . . . . *Instructor in Clinical Obstetrics and Gynecology***

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, St. Louis City Hospital.

M.D., Washington University, 1928.

**ROBERT VOTAW . . . . . *Instructor in Clinical Otolaryngology***

Assistant Otolaryngologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.

B.S., State University of Iowa, 1927; M.D., 1929.

**MARTIN FEENEY ENGMAN, JR. . . . . *Instructor in Clinical Dermatology***

Assistant Dermatologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Physician to Outpatients (Dermatology), University Clinics.

M.D., Washington University, 1928.

**HIROMU TSUCHIYA . . . . . *Instructor in Bacteriology and Immunology and in Public Health***

Parasitologist, Barnes Hospital.

A.B., University of Missouri, 1913; Sc.D., Johns Hopkins University, 1930.

**A. NORMAN ARNESON . . . . . *Instructor in Clinical Radiology and in Clinical Obstetrics and Gynecology***

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Radiologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics; Special Consultant in Obstetrics and Gynecology (Cases of Malignancy), Homer G. Phillips Hospital.

B.S., Texas Christian University, 1924; M.D. Washington University, 1928.

**PAUL WILLIAM PREISLER . . . . . *Instructor in Biological Chemistry***

B.S., Washington University, 1923; M.S., 1925; Ph.D., 1927.

**LEON BROMBERG . . . . . *Instructor in Clinical Medicine***

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital; Consulting Physician (Syphilology), Homer G. Phillips Hospital.

A.B., Rice Institute, 1920; M.D., Vanderbilt University, 1924.

**EDWIN HENRY ROHLFING** . . . . . *Instructor in Clinical Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.  
M.D., Washington University, 1919.

**MAX DEUTCH** . . . . . *Instructor in Clinical Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics.  
M.D., Washington University, 1926.

**FREDERICK AUGUST JACOBS** . . . . . *Instructor in Clinical Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics.  
B.S., Washington University, 1927; M.D., 1928.

**LEO GOTTLIEB** . . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Visiting Physician, Homer G. Phillips Hospital.  
A.B., University of Kansas, 1928; A.M., 1932; M.D., Washington University, 1932.

**STANLEY LEONARD HARRISON** . . . . . *Instructor in Clinical Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics; Visiting Pediatrician (Section Director), Homer G. Phillips Hospital.  
B.S., Washington University, 1928; M.D., 1930.

**JOSEPH CABELL JAUDON** . . . . . *Instructor in Clinical Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Visiting Pediatrician (Section Head), St. Louis City Hospital.  
A.B., Washington University, 1926; M.D., 1933.

**FRANKLIN EDWARD WALTON** . . . . . *Instructor in Clinical Surgery*  
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon, St. Louis City Hospital.  
B.S., Shurtleff College, 1923; M.D., Washington University, 1927.

**MARION CLAIRE MORRIS** . . . . . *Instructor in Bacteriology and Immunology*  
A.B., Smith College, 1923; M.S., Washington University, 1931; Ph.D., 1935.

**MELVIN ANDREW ROBLEE** . . . . . *Instructor in Clinical Obstetrics and Gynecology*  
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics.  
B.S., Washington University, 1923; M.D., 1925.

**KEVIN CHARLES MORRIN** . . . . . *Instructor in Clinical Obstetrics and Gynecology*  
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics; Special Consultant in Obstetrics and Gynecology (Cases of Malignancy), St. Louis City Hospital; Visiting Obstetrician and Gynecologist, Homer G. Phillips Hospital.  
M.B., B.Ch., National University of Ireland, 1921.

**SOL LONDE** . . . . . *Instructor in Clinical Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Assistant Physician to Outpatients (Pediatrics), University Clinics.  
B.S., Washington University, 1925; M.D., 1927.

**ADOLPH CHARLES LANGE** . . . . . *Instructor in Clinical Ophthalmology*  
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist (Section Chief), University Clinics.  
B.S., Washington University, 1928; M.D., 1930.

**JAY CRAWFORD** . . . . . *Instructor in Clinical Ophthalmology*  
Ophthalmologist to Outpatients, University Clinics.  
A.B., Mifflintown Academy, 1902; B.S., Spring Garden Institute, 1905; M.D., Temple Medical College, 1906.

**BARRETT LEARNED TAUSSIG** . . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital; Visiting Physician, Homer G. Phillips Hospital.

A.B., Harvard University, 1928; M.D., Washington University, 1932.

**BRIAN BREWER BLADES** . . . . . *Instructor in Clinical Surgery*  
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Consulting Surgeon (Chest), St. Louis City and Homer G. Phillips Hospitals.

A.B., University of Kansas, 1928; M.D., Washington University, 1932.

**RUSSELL JOHN BLATTNER** . . . . . *Instructor in Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics; Visiting Pediatrician (Section Head), St. Louis City Hospital; Visiting Pediatrician, St. Louis Isolation Hospital.

A.B., Washington University, 1929; M.D., 1933.

**BRUCE DELOZIER KENAMORE** . . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital; Consulting Physician (Gastroenterology), Homer G. Phillips Hospital.

A.B., Washington University, 1933; M.D., 1935.

**HENRY GERARD SCHWARTZ** . . . . . *Instructor in Clinical Neurological Surgery and Instructor in Neuroanatomy*  
Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Visiting Surgeon (Neurological), St. Louis City Hospital; Consulting Surgeon (Neurological), Homer G. Phillips Hospital.

A.B., Princeton University, 1928; M.D., Johns Hopkins University, 1932.

**PAUL ALLEN WHEELER** . . . . . *Instructor in Pathology*  
A.B., University of Texas, 1925; M.D., Vanderbilt University, 1932.

**H. RELTON MCCARROLL** . . . . . *Instructor in Clinical Orthopedic Surgery*  
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Visiting Surgeon (Orthopedic), St. Louis City Hospital.

A.B., Ouachita College, 1927; M.D., Washington University, 1931.

**MARSHALL G. SEIBEL** . . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Visiting Physician, St. Louis City Hospital.

B.S., University of Missouri, 1927; M.D., University of Louisville, 1929.

**THEODORE EUGENE SANDERS** . . . . . *Instructor in Clinical Ophthalmology*  
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics.

B.S., University of Nebraska, 1931; M.D., 1933.

**HENRY CLINE ALLEN** . . . . . *Instructor in Pathology and Assistant in Clinical Medicine*

M.D., Washington University, 1933.

**PAUL OONK HAGEMAN** . . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.

A.B., Washington University, 1930; M.D., 1934.

**CARL GAYLOR HARFORD** . . . . . *Instructor in Bacteriology and Immunology and Assistant in Clinical Medicine*

Assistant Physician, Barnes Hospital.

A.B., Amherst College, 1928; M.D., Washington University, 1933.

**RUTH KAHN** . . . . . *Instructor in Dietetics*  
Dietitian to Outpatients, University Clinics.

B.S., University of Illinois, 1927.

**LILBURN CASPER BOEMER** . . . . . *Instructor in Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.

B.S., St. Louis University, 1923; M.D., 1925.

ROBERT WILSON BARTLETT . . . *Instructor in Clinical Surgery and in Anatomy*

Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.

B.S., University of Michigan, 1926; M.D., 1930.

ALAN DUNCAN CALHOUN . . . *Instructor in Clinical Ophthalmology*

Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Assistant Ophthalmologist to Outpatients, University Clinics.

A.B., Washington University, 1929; M.D., 1933.

JOSEPH GITT . . . *Instructor in Clinical Neurology*

Assistant Neurologist, Barnes Hospital; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician (Neuropsychiatry), St. Louis City Hospital; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.

M.D., Washington University, 1930.

EDWARD MASSIE . . . *Instructor in Clinical Medicine*

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Consulting Physician (Cardiology), Homer G. Phillips Hospital.

A.B., Washington University, 1931; M.D., 1935.

JOSEPH CASTRO EDWARDS . . . *Instructor in Clinical Medicine*

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital.

A.B., University of Oklahoma, 1930; M.D., Harvard University, 1934.

ROBERT MALSEED BELL . . . *Instructor in Clinical Psychiatry*

Assistant Psychiatrist, Barnes Hospital; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.

M.D., St. Louis University, 1928.

JUSTIN JOSEPH CORDONNIER . . . *Instructor in Clinical Genitourinary Surgery*

Assistant Surgeon, Barnes Hospital; Surgeon and Section Chief (Genitourinary), University Clinics.

B.S., Washington University, 1926; M.D., 1928.

ELSON BOWMAN HELWIG . . . *Instructor in Pathology*

Associate Pathologist, Barnes Hospital; Assistant Pathologist, St. Louis Children's and St. Louis Maternity Hospitals.

B.S., Indiana University, 1930; M.D., 1932.

WILLIAM OGBURN RUSSELL *Instructor in Pathology (Neuropathology)*

Assistant Pathologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.

A.B., Stanford University, 1933; M.D., 1937.

EUGENE MYRON BRICKER<sup>1</sup> . . . *Instructor in Clinical Surgery*

M.D., Washington University, 1934.

SIMON EDWARD SULKIN . . . *Instructor in Bacteriology and Immunology*

B.S., Rhode Island State College, 1930; Ph.D., Washington University, 1939.

JOHN RUSSELL SMITH . . . *Instructor in Medicine*

Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics; Visiting Physician, St. Louis City Hospital; Visiting Physician, Homer G. Phillips Hospital.

A.B., University of Wisconsin, 1931; A.M., 1932; M.D., Washington University, 1934.

HYMAN HERSCHEL FINGERT . . . *Instructor in Clinical Psychiatry*

Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician (Neuropsychiatry), Malcolm A. Bliss Psychiatric Institute; Visiting Psychiatrist, Homer G. Phillips Hospital.

B.A., State University of Iowa, 1931; M.D., 1934.

PAUL MURPHY . . . *Instructor in Clinical Medicine*

M.D., St. Louis University, 1926.

<sup>1</sup> On leave of absence.

- ALEXANDER SUSS LANGSDORF, JR.** . . . . *Assistant Physicist to the Mallinckrodt Institute of Radiology*  
A.B., Washington University, 1932; Ph.D., Massachusetts Institute of Technology, 1937.
- JOHN FRANKLIN PATTON** *Instructor in Clinical Genitourinary Surgery*  
Assistant Surgeon, Barnes Hospital; Surgeon to Outpatients, (Genitourinary), University Clinics; Visiting Surgeon and Section Head Genitourinary, St. Louis City Hospital.  
M.D., Washington University, 1928.
- KENNETH O. WILSON** . *Instructor in Clinical Genitourinary Surgery*  
Visiting Surgeon (Genitourinary), St. Louis City Hospital.  
M.D., Washington University, 1923.
- KEITH SINGLETON WILSON** . . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
A.B., Williams College, 1930; M.D., Washington University, 1934.
- RAYMOND FRANCIS HOLDEN, JR.** . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Visiting Physician, St. Louis City Hospital; Visiting Physician, Homer G. Phillips Hospital.  
B.S., Washington University, 1933; M.D., 1933.
- JOHN WICKHAM SEDDON** . . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Visiting Physician, Homer G. Phillips Hospital.  
Ph.D., Yale University, 1931; M.D., Washington University, 1935.
- KARL FREDERICK KOENIG** . . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
B.S., University of Illinois, 1923; M.D., Washington University, 1931.
- ROBERT WILLIAM ELLIOTT** . . . . . *Instructor in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
A.B., Washington University, 1932; M.D., 1936.
- SYDNEY BROWN MAUGHS** . . . . . *Instructor in Clinical Psychiatry*  
Assistant Psychiatrist, Barnes Hospital; Physician to Outpatients (Neuropsychiatry), University Clinics; Visiting Physician, Malcolm A. Bliss Psychiatric Institute.  
A.B., Westminster College, 1931; M.D. Washington University, 1935.
- WILLIAM HENRY MEINBERG, JR.** . *Instructor in Clinical Ophthalmology*  
Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Visiting Ophthalmologist, Homer G. Phillips Hospital.  
B.S., in Medical Science, Washington University, 1932; M.D., 1932.
- EDWARD SMITH** . . . . . *Instructor in Pathology*  
Assistant Pathologist, Barnes Hospital.  
B.S., Indiana University, 1934; M.D., 1938.
- IRWIN LEVY** . . . . . *Instructor in Clinical Neurology*  
Visiting Physician (Neuropsychiatry), St. Louis City Hospital.  
A.B., Cornell University, 1927; M.D., St. Louis University, 1931; Med. Sci. D., Columbia University, 1935.
- HEINZ HAFFNER**<sup>1</sup> . . . . . *Instructor in Clinical Surgery*  
B.S., University of Arizona, 1931; M.D., Washington University, 1935.
- ZOLA KATHARINE COOPER** . . . . . *Instructor in Pathology*  
A.B., Washington University, 1925; M.S., 1926; Ph.D., 1929.
- LOUIS HELMAR JORSTAD** . . . . . *Instructor in Clinical Surgery*  
M.D., Washington University, 1924.
- EDWARD GOTTLIEB HAMPP**<sup>2</sup> . . . . . *Instructor in Pathology*  
D.D.S., Washington University, 1936; M.S., 1939.

<sup>1</sup> On leave of absence.<sup>2</sup> Resigned August 21, 1941.



- GUERDAN HARDY** . . . . . *Instructor in Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.  
M.D., Washington University, 1929.
- LEE WALLACE DEAN, JR.** . . . . *Instructor in Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals.  
B.S., Yale University, 1930; M.D., Washington University, 1933.
- HERBERT M. SMIT** . . . . . *Instructor in Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.  
M.D., St. Louis University, 1933.
- ROBERT W. EVANS** . . . . . *Instructor in Histology*  
B.S., Virginia Military Institute, 1935; M.D., University of Virginia, 1939.
- SAMUEL P. HARBISON** . . . . . *Instructor in Surgery*  
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.  
A.B., Princeton University, 1931; M.D., Cornell University, 1936.
- BEN HARLAN SENTURIA** . . . . . *Instructor in Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics; Visiting Otolaryngologist, St. Louis City Hospital.  
A.B., Washington University, 1931; M.D., 1935.
- HENRY LEWIS BARNETT** . . . . . *Instructor in Pediatrics*  
Visiting Pediatrician (Section Head), St. Louis City Hospital; Visiting Pediatrician, St. Louis Isolation Hospital.  
B.S., in Med. Science, Washington University, 1938; M.D., 1938.
- ERNEST DEAN GARDNER** . . . . . *Instructor in Anatomy*  
B.S., University of Washington, 1934; M.D., Stanford University, 1941.
- JOHN RAY POWERS** . . . . . *Instructor in Clinical Pediatrics*  
Resident Pediatrician, St. Louis Children's Hospital.  
M.D., Louisiana State University, 1937.
- ROBERT A. HARRIS** . . . . . *Dentist to the Department of Pediatrics*  
D.D.S., Washington University, 1933.
- WILLIAM FULLER BARNFIELD** . . . . . *Instructor in Pathology*  
D.D.S., Washington University, 1939.

## LECTURERS

- JOSEPH C. WILLETT** . . . . . *Lecturer in Public Health Diagnostic Methods*  
D.V.M., United States Veterinary College, 1920.
- ROY EARL MASON** . . . . . *Lecturer in Clinical Ophthalmology*  
Assistant Ophthalmologist, Barnes Hospital.  
M.D., St. Louis University, 1905.
- THOMAS B. POTE** . . . . . *Lecturer in Pathology*  
D.V.S., McGill University, 1892; M.D., Washington University, 1902.
- EDGAR VAN NORMAN EMERY** . . . . . *Lecturer in Psychiatry*  
Visiting Physician, Malcolm A. Bliss Psychiatric Institute.  
M.B., University of Toronto, 1911; M.D., 1931.
- WILLIAM W. CROWDUS** . . . . . *Lecturer in Medical Jurisprudence*  
LL.B., Washington University, 1922.
- LEONARD MARVIN BOARD** . . . . . *Lecturer in Public Health*  
B.S.C.E., West Virginia University, 1931.
- ROSEMARY PHILLIPS** . . . . . *Lecturer in Public Health Nursing*  
R.N., St. Louis City Hospital, 1920; C.P.H., Washington University, 1935; B.S., 1936.
- JOHN OSCAR BUXELL** . . . . . *Lecturer in Public Health*  
B.S.Ch.E., Washington University, 1934; M.S., 1936.

## ASSISTANTS

- MAURICE JULIUS LONSWAY** . . . . . *Assistant in Clinical Pediatrics*  
 Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.  
 B.S., Valparaiso University, 1910; M.D., St. Louis University, 1914.
- WILLIAM LUDWIG HANSON** . . . . . *Assistant in Clinical Otolaryngology*  
 Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals.  
 M.D., Washington University, 1913.
- OLIVER ABEL, JR.** . . . . . *Assistant in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Visiting Physician, St. Louis City Hospital.  
 B.S., Washington University, 1922; M.D., 1923.
- WILLIAM GEORGE BECKE** . . . . . *Assistant in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Visiting Physician, St. Louis City Hospital.  
 M.D., Washington University, 1923.
- FRANCIS JOHN CANEPA** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.  
 M.D., Washington University, 1922.
- HELEN GAGE** . . . . . *Assistant in Clinical Otolaryngology*  
 Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.  
 B.S., University of Michigan, 1916; M.D., 1918.
- MYRON WOODWARD DAVIS** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics.  
 M.D., Washington University, 1925.
- BARBARA STANDISH KENDALL** . . . . . *Assistant in Medical Psychology*  
 Psychologist to Outpatients, University Clinics.  
 A.B., Radcliffe College, 1913; Ed.M., Harvard University, 1928.
- FRANZ JOSEPH ARZT** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Obstetrician and Gynecologist to Outpatients, University Clinics.  
 M.D., Washington University, 1926.
- BERTRAND YOUNKER GLASSBERG** . . . . . *Assistant in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
 B.S., Washington University, 1923; M.D., 1925.
- ALLEN B. POTTER** . . . . . *Assistant in Clinical Otolaryngology*  
 Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics; Visiting Otolaryngologist (Section Head), St. Louis City Hospital.  
 A.B., William Jewell College, 1916; M.D., St. Louis University, 1924.
- EDWARD LAWRENCE KEYES, JR.** . . . . . *Assistant in Clinical Surgery*  
 Assistant Surgeon, Barnes and St. Louis Children's Hospitals.  
 B.S., Princeton University, 1921; M.D., Cornell University, 1926.
- GRACE MEHRTEN** . . . . . *Assistant in Applied Bacteriology in Medicine*  
 A.B., University of Kansas, 1924; M.A., 1925.
- MILTON SMITH** . . . . . *Assistant in Clinical Medicine*  
 Assistant Physician, Barnes Hospital.  
 B.S., Washington University, 1928; M.D., 1930.
- IRWIN HERMAN ESKELES** . . . . . *Assistant in Clinical Dermatology*  
 Assistant Dermatologist, Barnes Hospital; Assistant Physician to Outpatients (Dermatology), University Clinics; Consulting Physician (Dermatology and Syphilology), Homer G. Phillips Hospital.  
 B.S., Washington University, 1920; M.D., 1922.



- JOSEPH ALOYSIUS BAUER** . . . . . *Assistant in Clinical Pediatrics*  
 Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.  
 M.D., Washington University, 1926.
- WILLARD CALVIN SCRIVNER** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.  
 B.S., Washington University, 1928; M.D., 1930.
- JOHN B. O'NEILL** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Visiting Obstetrician and Gynecologist, St. Louis City Hospital.  
 M.D., St. Louis University, 1927.
- FREDERICK W. SCHERRER, JR.** . . . . *Assistant in Clinical Otolaryngology*  
 Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals.  
 B.S., St. Louis University, 1926; M.D., 1928; M.S., in Otolaryngology, University of Pennsylvania, 1932.
- LEE BULLEN HARRISON** . . . . . *Assistant in Clinical Medicine*  
 Assistant Physician, Barnes Hospital.  
 A.B., University of Utah, 1925; M.D., Washington University, 1927.
- LOUIS T. BYARS** . . . . . *Assistant in Clinical Surgery*  
 Assistant Surgeon, Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon (Plastic), St. Louis City Hospital.  
 B.S., University of Arkansas, 1928; M.D., Washington University, 1932.
- ALBERT CHESTERFIELD STUTSMAN** . . . . . *Assistant in Clinical Otolaryngology*  
 Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Visiting Otolaryngologist, St. Louis City Hospital.  
 B.S., Roanoke College, 1927; M.D., University of Virginia, 1931.
- FRANCES H. STEWART** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.  
 M.D., Washington University, 1927.
- EDWARD WYATT CANNADY** . . . . . *Assistant in Clinical Medicine*  
 Assistant Physician, Barnes Hospital.  
 A.B., Washington University, 1927; M.D., 1931.
- DAVID MILLER SKILLING, JR.** . . . . *Assistant in Clinical Medicine*  
 Assistant Physician, Barnes Hospital.  
 B.S., Washington and Jefferson College, 1923; M.D., Washington University, 1928.
- HARRY L. THIEME** . . . . . *Assistant in Clinical Orthopedic Surgery*  
 Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon and Section Director (Orthopedic), Homer G. Phillips Hospital.  
 B.S., St. Louis University, 1922; M.D., 1924.
- HANS LOUIS KLEINE<sup>1</sup>** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
 Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.  
 B.S., Washington University, 1927; M.D., 1929.
- KURT MANSBACHER** . . . . . *Assistant in Clinical Medicine*  
 Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
 M.D., Friedrich-Wilhelms University, 1919.
- LESLIE ENDICOTT PATTON** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
 Assistant Obstetrician and Gynecologist, St. Louis Maternity Hospital.  
 B.S., St. Louis University, 1921; M.D., 1924.

<sup>1</sup> Deceased September 21, 1941.

**GEORGE J. L. WULFF, JR. . . . Assistant in Clinical Obstetrics and Gynecology**

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, Homer G. Phillips Hospital.  
A.B., Washington University, 1929; M.D., 1933.

**PAUL FRANKLIN MAX . . . . Assistant in Clinical Obstetrics and Gynecology**

Assistant Obstetrician and Gynecologist, St. Louis Maternity Hospital; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.  
B.S., Washington University, 1932; M.D., 1932.

**SIM F. BEAM . . . . Assistant in Clinical Medicine**

Assistant Physician, Barnes Hospital; Visiting Physician, St. Louis City Hospital.  
A.B., University of Missouri, 1928; M.D., Washington University, 1932.

**EDMUND BENNETT ALVIS . . . Assistant in Clinical Ophthalmology**

Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Assistant Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist, St. Louis City Hospital.  
M.D., Washington University, 1934.

**MORRIS MOORE . . . . Mycologist to the Department of Dermatology**

Mycologist, Barnes Hospital; Mycologist to Outpatients, University Clinics.  
B.S., Boston University, 1928; A.M., Harvard University, 1929; Ph.D., Washington University, 1933.

**HELMAN CHAIM WASSERMAN . . Assistant in Clinical Obstetrics and Gynecology**

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, Homer G. Phillips Hospital.  
A.B., Johns Hopkins University, 1928; M.D., Washington University, 1932.

**ALVAH GERRIT HEIDEMAN . . . . Assistant in Clinical Surgery**

Voluntary Assistant in Surgery, Barnes Hospital.  
M.D., Washington University, 1926.

**HARRY DAVID ROSENBAUM<sup>1</sup> . . . Assistant in Clinical Ophthalmology**

Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist, St. Louis City Hospital.  
M.D., Washington University, 1934.

**HAROLD SCHEFF . . . . Assistant in Clinical Medicine**

Physician to Outpatients, University Clinics; Visiting Physician, Homer G. Phillips Hospital.  
M.D., University of Toronto, 1931.

**WILLIAM THOMAS KIMLIN BRYAN . . . . Assistant in Clinical Otolaryngology**

Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Otolaryngologist to Outpatients, University Clinics; Visiting Otolaryngologist, Homer G. Phillips Hospital.  
A.B., Washington University, 1929; M.D., 1933.

**ARTHUR ROBERT BORTNICK . . . Assistant in Clinical Obstetrics and Gynecology**

Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, Homer G. Phillips Hospital.  
M.D., Washington University, 1935.

**JAMES HOWARD BRYAN . . . . Assistant in Clinical Ophthalmology**

Assistant Ophthalmologist, Barnes and St. Louis Children's Hospitals; Assistant Ophthalmologist to Outpatients, University Clinics; Visiting Ophthalmologist, Homer G. Phillips Hospital.  
A.B., Washington University, 1932; M.D., 1936.

<sup>1</sup> On leave of absence until May 15, 1942 for military duty.

**ORA JAMES GIBSON** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
Assistant Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist, St. Louis City Hospital.  
A.B., Stanford University, 1929; A.M., 1930; M.D., Washington University, 1933.

**JOHN LINSOTT HORNER** . . . . . *Assistant in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
A.B., Washington University, 1932; M.D., 1936.

**CARL EDWARD LISCHER** . . . . . *Assistant in Surgery*  
Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
A.B., University of California, 1933; M.D., Washington University, 1937.

**OLGA BIERBAUM** . . . . . *Assistant in Hematology in Medicine*  
B.S. in Ed., Ohio State University, 1930.

**HELEN MARGARET AFF** . . . . . *Assistant in Clinical Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital.  
B.S., Washington University, 1934; M.D., 1934.

**DOROTHY JEANNETTE JONES** . . . . . *Assistant in Clinical Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Physician to Outpatients (Pediatrics), University Clinics; Visiting Pediatrician, St. Louis City Hospital.  
A.B., Oberlin College, 1930; M.D., Washington University, 1934.

**HARRY EWING WACHTER** . . . . . *Assistant in Clinical Pediatrics*  
Assistant Physician, St. Louis Children's Hospital; Assistant Pediatrician, St. Louis Maternity Hospital; Assistant Physician to Outpatients (Pediatrics), University Clinics; Visiting Pediatrician, St. Louis City Hospital; Visiting Pediatrician, Homer G. Phillips Hospital.  
A.B., Washington University, 1929; M.D., 1933.

**OSCAR PERRY HAMPTON, JR.** . . . . *Assistant in Clinical Orthopedic Surgery*  
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon (Orthopedic), St. Louis City Hospital.  
M.D., University of Tennessee, 1928.

**MAURICE BERNARD ROCHE** . . . . . *Assistant in Clinical Orthopedic Surgery*  
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon (Orthopedic), St. Louis City Hospital.  
M.D., St. Louis University, 1933.

**HARRY AGRESS** . . . . . *Assistant in Clinical Medicine*  
Assistant Physician, Barnes Hospital.  
B.S., Washington University, 1932; M.D., 1932.

**WILLIAM R. ARROWSMITH** . . . . . *Assistant in Clinical Medicine*  
Assistant Physician, Barnes Hospital.  
B.S., Muskingum College, 1930; M.D., Ohio State University, 1938.

**WILSON GORDON BROWN**<sup>1</sup> . . . . . *Assistant in Pathology*  
A.B., William Jewell College, 1935; M.D., Washington University, 1939.

**S. ALBERT HANSER**<sup>2</sup> . . . . . *Assistant in Clinical Ophthalmology*  
Voluntary Assistant in Ophthalmology, Barnes Hospital; Visiting Ophthalmologist, Homer G. Phillips Hospital.  
B.S., St. Louis University, 1933; M.D., 1937.

**ROBERT WILSON KELLEY** . . . . . *Assistant in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.  
A.B., Southwestern College, 1932; M.D., Washington University, 1936.

<sup>1</sup> On leave of absence from July 15, 1941 to June 30, 1942 for military duty.

<sup>2</sup> On leave of absence until January 9, 1942 for military duty.

- RAYMOND RAY LANIER, JR. . . . . *Assistant in Anatomy*  
B.A., University of Richmond, 1935; Ph.D., Washington University, 1939.
- THOMAS GORDON RUSSELL<sup>1</sup> . . . . . *Assistant in Radiology*  
B.S., University of Toledo, 1933; M.D., Washington University, 1937.
- BERNARD SCHWARTZMAN . . . . . *Assistant in Clinical Pediatrics*  
Assistant Pediatrician, St. Louis Children's Hospital.  
A.B., Washington University, 1931; M.D., 1935.
- CARL AUGUST WATTENBERG . . . . . *Assistant in Clinical Genitourinary Surgery*  
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.  
A.B., University of Kansas, 1934; M.D., 1937.
- BENJAMIN HYNES CHARLES . . . . . *Assistant in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Assistant Physician to Outpatients, University Clinics.  
M.B., Ch.B., University of Edinburgh, 1934.
- TRUMAN GUTHRED DRAKE, JR. . . . . *Assistant in Clinical Medicine*  
Assistant Physician, Barnes Hospital; Visiting Physician, St. Louis City Hospital.  
A.B., Washington University, 1929; M.D., 1933.
- JEAN FISCHER BENNETT<sup>1</sup> . . . . . *Assistant in Applied Chemistry in Medicine*  
A.B., Washington University, 1934; M.S., 1935.
- STANLEY MILTON LEYDIG . . . . . *Assistant in Clinical Orthopedic Surgery*  
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon (Orthopedic), Homer G. Phillips Hospital.  
A.B., State University of Montana, 1930; M.D., Washington University, 1934.
- HERMAN HUTTO . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
Assistant Obstetrician and Gynecologist, Barnes Hospital; Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.  
A.B., University of Alabama, 1932; M.D., Washington University, 1935.
- MARY LUCY MILLER . . . . . *Research Assistant in Pathology*  
A.B., Syracuse University, 1927; M.A., Columbia University, 1929; Ph.D., 1934.
- JAMES WILLIAM BAGBY . . . . . *Assistant in Clinical Dermatology*  
Assistant Physician to Outpatients (Dermatology), University Clinics; Visiting Physician (Dermatology), Homer G. Phillips Hospital.  
A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University, 1933.
- MORRIS DAVID MARCUS . . . . . *Assistant in Clinical Dermatology*  
Assistant Physician to Outpatients (Dermatology), University Clinics; Visiting Physician (Dermatology), Homer G. Phillips Hospital.  
M.D., Washington University, 1934.
- CARL JACOB ALTHAUS . . . . . *Assistant in Clinical Genitourinary Surgery*  
Voluntary Assistant in Genitourinary Surgery, Barnes Hospital; Assistant Surgeon to Outpatients (Genitourinary), University Clinics.  
M.D., St. Louis University, 1917.
- HARRY CUTLER . . . . . *Assistant in Clinical Genitourinary Surgery*  
Voluntary Assistant in Genitourinary Surgery, Barnes Hospital; Assistant Surgeon to Outpatients (Genitourinary), University Clinics.  
M.D., St. Louis University, 1930.
- HAROLD HENRY FELLER . . . . . *Assistant in Clinical Genitourinary Surgery*  
Voluntary Assistant in Genitourinary Surgery, Barnes Hospital; Assistant Surgeon to Outpatients (Genitourinary), University Clinics.  
M.D., Washington University, 1926.
- JULES H. KOPP . . . . . *Assistant in Clinical Genitourinary Surgery*  
Voluntary Assistant in Genitourinary Surgery, Barnes Hospital; Assistant Surgeon to Outpatients (Genitourinary), University Clinics; Visiting Surgeon (Genitourinary), St. Louis City Hospital.  
M.D., University of Arkansas, 1931.

<sup>1</sup> Resigned September 30, 1941.

- BURCHARD SIMPSON PRUETT** . . . . . *Assistant in Clinical Surgery*  
Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.  
B.S., Washington University, 1929; M.D., 1929.
- FRANK McDOWELL** . . . . . *Assistant in Clinical Surgery*  
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon (Plastic), Homer G. Phillips Hospital.  
A.B., Drury College, 1932; M.D., Washington University, 1936.
- CARL J. HEIFETZ** . . . . . *Assistant in Clinical Surgery*  
Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.  
B.S., Washington University, 1925; M.D., 1929.
- BRUCE CARSON MARTIN** . . . . . *Assistant in Clinical Surgery*  
Assistant Surgeon, Barnes Hospital; Visiting Surgeon, Homer G. Phillips Hospital.  
M.D., Washington University, 1935.
- LOREN FRANCIS BLANEY** . . . . . *Assistant in Clinical Medicine*  
A.B., Washington University, 1934; M.D., 1938.
- ELMA KNOST DOUBLY** . . . . . *Assistant in Immunology in Medicine*  
A.B., University of Kansas, 1932.
- MALCOLM M. COOK** . . . . . *Assistant in Clinical Medicine and Research*  
*Assistant in Pediatrics*  
Assistant Physician, Barnes Hospital; Theron Catlin Fellow, St. Louis Children's Hospital.  
B.S., Emory University, 1930; M.D., 1933.
- WILLIAM GRANT COOPER, JR.** . . . . . *Assistant in Surgery*  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
A.B., Harvard University, 1933; M.D., Yale University, 1937.
- ANDY HALL, JR.** . . . . . *Assistant in Clinical Genitourinary Surgery*  
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.  
M.D., Washington University, 1926.
- GEORGE KALMANSON** . . . . . *Assistant in Bacteriology and Immunology*  
B.S., College of the City of New York, 1934; M.S., University of Illinois, 1936; Ph.D., Washington University, 1939.
- ALFRED MCKEE LARGE** . . . . . *Assistant in Surgery*  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
A.B., University of Toronto, 1933; M.D., 1936.
- JOHN ROBERT LIONBERGER, JR.** . . . . . *Assistant in Radiology*  
Resident Radiologist, Barnes Hospital.  
A.B., Washington University, 1934; M.D., 1938.
- VIRGINIA MINNICH** . . . . . *Assistant in Hematology in Medicine*  
B.S., Ohio State University, 1937; M.S., Iowa State College, 1938.
- JAMES F. NOLAN** . . . . . *Assistant in Obstetrics and Gynecology*  
Resident Obstetrician and Gynecologist, St. Louis Maternity Hospital.  
A.B., University of Missouri, 1935; M.D., Washington University, 1938.
- EDWARD HUMPHREY REINHARD** . . . . . *Assistant in Medicine*  
Visiting Physician, Homer G. Phillips Hospital.  
A.B., Washington University, 1935; M.D., 1939.
- HAROLD K. ROBERTS** . . . . . *Assistant in Medicine*  
Assistant Physician to Outpatients, University Clinics.  
A.B., Ohio State University, 1935; M.D., 1939.
- WILLIAM FREDERICK ROSE** . . . . . *Assistant in Surgery*  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1938.
- DAVID C. ROTHMAN** . . . . . *Assistant in Clinical Obstetrics and Gynecology*  
Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.  
B.S. in Med. Science, Washington University, 1935; M.D., 1935.



- JOHN HARRISON WEDIG** . . . . . *Assistant in Clinical Medicine*  
Physician to Outpatients, University Clinics.  
M.D., Washington University, 1938.
- WILLARD TERRILL BARNHART** . . . . . *Assistant in Clinical Genitourinary Surgery*  
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.  
A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University, 1933.
- CLAYTON BROCK** . . . . . *Assistant in Clinical Surgery*  
A.B., Lawrence College, 1932; B.M., Northwestern University, 1936; M.D., 1937.
- ANTHONY KARL BUSCH** . . . . . *Assistant in Clinical Psychiatry*  
M.D., St. Louis University, 1937.
- ADOLPH HENRY CONRAD, JR.** . . . . *Assistant in Clinical Dermatology*  
Assistant Physician to Outpatients (Dermatology), University Clinics.  
A.B., Washington University, 1934; M.D., 1938.
- PHILIP SHANNON MOUNTJOY** . . . . . *Assistant in Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Visiting Otolaryngologist, Homer G. Phillips Hospital.  
A.B., Washington University, 1933; M.D., 1937.
- ALFRED FLEISHMAN** . . . . . *Assistant in Clinical Medicine*  
Visiting Physician, Barnes Hospital.  
B.S., Washington University, 1935; M.D., 1935.
- STANLEY FORREST HAMPTON** . . . . . *Assistant in Clinical Medicine*  
Assistant Physician, Barnes Hospital.  
A.B., Washington and Lee University, 1930; M.D., Washington University, 1934.
- VIRGIL OTTO FISH** . . . . . *Assistant in Clinical Surgery*  
Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon (Proctology), Homer G. Phillips Hospital.  
M.D., Washington University, 1930.
- GERHARD ELIAS GRUENFELD** . . . . . *Assistant in Clinical Surgery*  
Assistant Surgeon to Outpatients, University Clinics.  
M.D., Friedrich-Wilhelms University, 1923.
- GORDON SCHOEFFLE** . . . . . *Assistant in Physiology*  
A.B., De Pauw University, 1937; Ph.D., Princeton University, 1940.
- WILLIAM KINDRED WILSON** . . . . . *Assistant in Clinical Surgery*  
Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon (Proctology), Homer G. Phillips Hospital.  
A.B., University of Alabama, 1932; M.D., Washington University, 1935.
- WILLIAM T. MOORE<sup>1</sup>** . . . . . *Assistant in Pathology*  
Voluntary Assistant Pathologist, Barnes Hospital.  
M.D., University of Virginia, 1938.
- PAUL TUPPER HARTMAN** . . . . . *Assistant in Clinical Psychiatry*  
A.B., Washington University, 1934; M.D., 1938.
- HAROLD E. FREEDMAN** . . . . . *Assistant in Clinical Medicine*  
Visiting Physician, St. Louis City Hospital.  
Ph.B., Yale University, 1929; M.D., Washington University, 1938.
- THEODOR ENGELMANN KIRCHER, JR.** . . . . *Assistant in Clinical Medicine*  
Assistant Physician, Barnes Hospital.  
A.B., Yale University, 1933; M.D., Washington University, 1937.
- BART NEWTON WHITE** . . . . . *Assistant in Medicine*  
Physician to Outpatients, University Clinics.  
B.S., Duke University, 1935; M.D., Vanderbilt University, 1939.
- HUBERT LEE ALLEN** . . . . . *Assistant in Obstetrics and Gynecology*  
Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.  
A.B., University of Kansas, 1932; M.D., Tulane University, 1936.

<sup>1</sup> July 1 to December 31, 1941.

- VILRAY PAPIN BLAIR, JR.** . . . . . *Assistant in Surgery*  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1939.
- HAROLD METCALFE CLARKE** . . . . . *Assistant in Surgery*  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., University of Rochester, 1939.
- RUSSELL J. CRIDER** . . . . . *Assistant in Surgery*  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1940.
- CHARLES LEONARD ECKERT** . . . . . *Assistant in Surgery*  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1939.
- JANE ARAX ERGANIAN** . . . . . *Assistant in Pathology*  
Voluntary Assistant Pathologist, Barnes Hospital; Intern in Pathology, St. Louis Children's Hospital.  
A.B., Washington University, 1937; M.D., 1941.
- CARL GOETSCH** . . . . . *Assistant in Obstetrics and Gynecology*  
Resident Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.  
B.S., University of Chicago, 1933; M.D., University of Rochester, 1937.
- IRVING J. GOODOF** . . . . . *Assistant in Pathology*  
Assistant Resident Pathologist, Barnes Hospital; Voluntary Assistant Pathologist, St. Louis Children's Hospital.  
A.B., Harvard University, 1936; M.D., Boston University, 1940.
- GLEN HENRY HARRISON** . . . . . *Assistant in Ophthalmology*  
Resident Ophthalmologist, Barnes and St. Louis Children's Hospitals.  
Ph. B., Carroll College, 1932; M.D., Marquette University, 1939.
- WILLIAM KENNEY** . . . . . *Assistant in Pathology*  
Voluntary Assistant Pathologist, Barnes Hospital.  
A.B., Harvard University, 1937; M.D., Yale University, 1941.
- EDGAR HAYDEN KEYS, JR.** . . . . *Assistant in Obstetrics and Gynecology*  
Assistant Resident Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.  
A.B., Harvard University, 1935; M.D., Washington University, 1939.
- EDWARD HARRY LYMAN** . . . . . *Assistant in Clinical Otolaryngology*  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assistant Otolaryngologist to Outpatients, University Clinics.  
B.S., Washington University, 1937; M.D., 1937.
- SAMUEL PRESTON MARTIN**<sup>1</sup> . . . . . *Assistant in Pathology*  
Voluntary Assistant Pathologist, Barnes Hospital.  
M.D., Washington University, 1941.
- JOHN EDWARD MIKSICEK** . . . . . *Assistant in Clinical Psychiatry*  
A.B., Washington University, 1933; B.S., 1937; M.D., 1937.
- LLOYD CHAUNCEY MILLER** . . . . . *Assistant in Clinical Medicine*  
M.D., Washington University, 1925.
- CHARLES WILLIAM MILLS, JR.**<sup>2</sup> . . . . . *Assistant in Obstetrics and Gynecology*  
Assistant Resident Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.  
M.D., University of Pennsylvania, 1938.
- JOHN JAMES MODLIN** . . . . . *Assistant in Surgery*  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
B.S., University of Nebraska, 1934; M.D., 1938.
- RALPH POLLOCK, JR.** . . . . . *Assistant in Medicine*  
Assistant Resident Physician, Barnes Hospital.  
A.B., University of California at Los Angeles, 1936; M.D., Stanford University, 1940.

<sup>1</sup> July 1 to December 31, 1941.

<sup>2</sup> Resigned August 31, 1941 for military service.

- JOHN ROSS** . . . . . *Assistant in Medicine*  
Assistant Resident Physician, Barnes Hospital.  
B.S., Georgetown University, 1936; M.D., Johns Hopkins University, 1940.
- GEORGE E. ROULHAC<sup>1</sup>** . . . . . *Assistant in Surgery*  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Vanderbilt University, 1939.
- ALFRED SEYMOUR SCHWARTZ** . . . . . *Assistant in Clinical Pediatrics*  
Assistant Pediatrician, St. Louis Children's Hospital.  
M.D., Johns Hopkins University, 1936.
- RICHARD GORDON SCOBEE** . . . . . *Assistant in Ophthalmology*  
Assistant Resident Ophthalmologist, Barnes and St. Louis Children's Hospitals.  
A.B., Rice Institute, 1935; M.D., University of Texas, 1939.
- WILLIAM CHARLES STAHL** . . . . . *Assistant in Pathology*  
Voluntary Assistant in Pathology, Barnes Hospital.  
B.S., Virginia Polytechnic Institute, 1931; M.S., Ohio State University, 1932;  
M.D., Washington University, 1941.
- LEO J. WADE** . . . . . *Assistant in Medicine*  
Resident Physician, Barnes Hospital.  
A.B., Washington University, 1933; M.D., 1938.
- SYDNEY THURMAN WRIGHT** . . . . . *Assistant in Medicine*  
Assistant Resident Physician, Barnes Hospital.  
A.B., Fresno State College, 1935; B.S., Washington University, 1940; M.D.,  
1940.
- RALPH BENSON WOOLF** . . . . . *Assistant in Obstetrics and Gynecology*  
Assistant Resident Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.  
B.S., Massachusetts Institute of Technology, 1935; M.D., University of Rochester, 1939.
- HUGH WILLIAM GAROL** . . . . . *Assistant in Neurology*  
M.D., McGill University, 1938.
- FRANCIS EDMUND HUNTER** . . . . . *Assistant in Pharmacology*  
B.S., Mount Union College, 1938; Ph.D., University of Rochester, 1941.
- MELVIN B. KIRSTEIN** . . . . . *Assistant in Clinical Medicine*  
Physician to Outpatients, University Clinics; Visiting Physician, Homer G. Phillips Hospital.  
B.S., Indiana University, 1930; M.D., 1933.
- THOMAS WILSON WESSON** . . . . . *Assistant in Ophthalmology*  
Assistant Ophthalmologist, Barnes Hospital.  
M.D., Duke University, 1935.
- MARIANNE KUTTNER** . . . . . *Assistant in Clinical Pediatrics*  
Assistant Physician to Outpatients (Pediatrics), University Clinics.  
M.D., Johann Wolfgang Goethe University (Frankfurt on Main), 1931.
- EDITH C. ROBINSON** . . . . . *Assistant in Clinical Pediatrics*  
Assistant Physician to Outpatients (Pediatrics), University Clinics.  
M.D., Johns Hopkins University, 1932.
- MARSHALL W. KELLY<sup>2</sup>** . . . . . *Assistant in Clinical Surgery*  
Visiting Surgeon, St. Louis City Hospital.  
M.D., Washington University, 1936.
- SHIH-DOH WU<sup>3</sup>** . . . . . *Visiting Assistant in Pathology*  
M.D., Peiping Union Medical College, 1934.
- MICHAEL MEYER KARL** . . . . . *Assistant in Medicine*  
M.D., University of Louisville, 1938.

<sup>1</sup> Resigned July 31, 1941 for military service.

<sup>2</sup> Effective September 1, 1941.

<sup>3</sup> September 15, 1941 to February 1, 1942.

## FELLOWS AND RESEARCH ASSISTANTS

- SAMUEL J. HAYWARD *Research Assistant in Obstetrics and Gynecology*  
LEOPOLD HOFSTATTER . . . . . *Research Fellow in Neuropsychiatry*  
M.D., University of Vienna, 1926.
- SIDNEY COLOWICK . . . . . *Research Assistant in Pharmacology*  
B.S., Washington University, 1936; M.S., 1939.
- ALFRED D. BUCHMUELLER . . . . . *Research Fellow in Social Service in*  
*Neuropsychiatry*  
A.B., Elmhurst College, 1931.
- THOMAS HANNAHAN BURFORD . . . . . *Fellow in Chest Surgery*  
A.B., University of Missouri, 1931; B.S., 1933; M.D., Yale University, 1936.
- HELEN E. GARDNER . . . . . *Research Fellow in Applied Chemistry in*  
*Pediatrics*  
A.B., Grinnell College, 1938.
- EDMUND ANTON SMOLIK . . . . . *Fellow in Neurological Surgery*  
*Fellow in Neurological Surgery, Barnes and St. Louis Children's Hospitals.*  
A.B., John Carroll University, 1932; M.D., Western Reserve University, 1936;  
M.S., University of Louisville, 1940.
- ROBERT EUGENE STOWELL . . . . . *Research Fellow in Cytology*  
A.B., Stanford University, 1936.
- ELLENMAE VIERGIVER *Research Assistant in Obstetrics and Gynecology*  
A.B., University of Rochester, 1936.
- HERMAN THEODORE BLUMENTHAL . . . . . *Research Assistant in Pathology*  
B.S., Rutgers University, 1934; M.S., University of Pennsylvania, 1936; Ph.D.,  
Washington University, 1938.
- JACQUES BRUNEAU . . . . . *Research Fellow in Surgery*  
A.B., University of Montreal, 1932; M.D., 1938.
- HERNAN AGUILAR . . . . . *Fellow and Research Assistant in Surgery*  
*Voluntary Assistant (Thoracic Surgery), Barnes Hospital.*  
M.D., University of Buenos Aires, 1929.
- ELLA PFEIFFENBERGER . . . . . *Research Fellow in Applied Chemistry in*  
*Pediatrics*  
A.B., Wellesley College, 1936; M.S., Washington University, 1940.
- D. FRITZ LIEBEN . . . . . *Research Fellow in Applied Biological Chemistry in*  
*Surgery*  
Ph.D., University of Vienna, 1914.
- ROBERT G. LOEFFEL . . . . . *Research Assistant in Pharmacology*  
B.S.M.E., Washington University, 1929.
- SAUL ALLEN MACKLER . . . . . *Fellow in Chest Surgery*  
B.S., Columbia University, 1933; M.D., University of Chicago, 1937.
- FLORENCE MARY HEYS . . . . . *Research Assistant in Pediatrics*  
A.B., Washington University, 1924; M.S., 1926; Ph.D., 1930.
- PAUL E. NIELSON . . . . . *Research Assistant in Anatomy*  
A.B., University of Utah, 1936; A.M., 1938; Ph.D., University of Wisconsin,  
1941.
- LAWRENCE MILTON SHEFTS . . . . . *Fellow in Chest Surgery*  
A.B., University of Oklahoma, 1930; M.D., Rush Medical College, 1934.
- ALBERT INGRAM LANSING<sup>1</sup> . . . . . *Research Fellow in Anatomy*  
A.B., University of Pennsylvania, 1937; Ph.D., Indiana University, 1941.
- MARIO BESSO PIANETTO<sup>2</sup> . . . . . *Pan-American Union Visiting Fellow in*  
*Chest Surgery*  
M.D., Litoral University (Argentina), 1937.
- LOUISE Q. JACOBY . . . . . *Secretary to the Dean*  
A.B., Washington University, 1927.

<sup>1</sup> Effective September 16, 1941.<sup>2</sup> Effective September 18, 1941.

## OFFICERS AND COMMITTEES OF THE FACULTY OF THE SCHOOL OF MEDICINE

### EXECUTIVE FACULTY

GEORGE REEVES THROOP, *Bridge Chancellor*

PHILIP A. SHAFFER, *Dean*

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EVARTS A. GRAHAM  
SHERWOOD MOORE  
EDMUND V. COWDRY  
JACQUES J. BRONFENBRENNER  
CARL F. CORI  
LAWRENCE T. POST

JOHN V. LAWRENCE  
ALEXIS F. HARTMANN  
DAVID MCK. RIOCH  
ROBERT A. MOORE  
WILLARD M. ALLEN  
THEODORE E. WALSH  
HARRY L. ALEXANDER

### GENERAL FACULTY

The General Faculty is composed of all the officers of administration and instruction above and including the rank of Assistant Professor.

HUGH MCCULLOCH, *Secretary of General Faculty*

### STANDING COMMITTEES<sup>1</sup>

#### MEDICAL EDUCATION

Dr. Erlanger (*Chairman*), Drs. Alexander, Cowdry, R. Moore, Sachs, Mr. Parker.

#### LIBRARY

Dr. Cori (*Chairman*), Drs. Allen, Elman, C. Moore, R. Moore.

#### JOINT MEDICAL BOARD<sup>2</sup>

Dr. Bradley (*Chairman*), Drs. Alexander, W. Allen, Graham, Hartmann, Lawrence, R. Moore, S. Moore, Post, Rioch, Walsh, Miss Claiborne, Mrs. Keith, Miss Knapp.

#### THE EDWARD MALLINCKRODT INSTITUTE OF RADIOLOGY

Dr. S. Moore (*Chairman*), Drs. Erlanger, Graham, Hughes.

#### MCMILLAN HOSPITAL AND OSCAR JOHNSON INSTITUTE

Dr. Shaffer (*Chairman*), Drs. Graham, Lawrence, Post, Walsh.

#### ADMISSIONS AND SCHOLARSHIPS

Dr. Shaffer (*Chairman*), Drs. Jacobsen, Walton, Mr. Parker.

#### PROMOTIONS

Dr. R. Moore (*Chairman*), Drs. Cowdry, Hartmann, Rioch, Walton, Mr. Parker (*Secretary*).

#### DEPARTMENT OF SOCIAL SERVICE

Dr. Alexander (*Chairman*), Drs. Allen, Bradley, Cooke, Copher, Lawrence, MacBryde, Mrs. Holland, Miss Taylor, Mrs. Rice, Mr. Van Schoiack, Mrs. Keith, Miss Claiborne.

<sup>1</sup> The Dean is *ex officio* a member of all standing committees.

<sup>2</sup> The Joint Medical Board represents a fusion of and replaces the separate Faculty Committees on the Barnes Hospital, the Children's Hospital, the Maternity Hospital and the Clinics.



## ST. LOUIS CITY HOSPITALS

Dr. Hartmann (*Chairman*), Drs. Alexander, Allen, Graham, Post, Rioch, Walsh.

## GRADUATE INSTRUCTION

Dr. Graham (*Chairman*), Drs. Allen, Hartmann, S. Moore, Post, Walsh, Womack.

## STUDENT HEALTH

Dr. Lawrence (*Chairman*), Drs. Bronfenbrenner, Ewerhardt, Jean, Walton, Warson, Dean Lischer (School of Dentistry).

## BUSINESS OFFICERS OF THE UNIVERSITY

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*Treasurer and Secretary to the Corporation*

THOMAS EDWARD BLACKWELL, PH.B., M.S., J.D.

*Comptroller and Business Manager*

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FRANZ ALFRED BERGER, B.S., M.E. . . . . *Supervising Engineer*

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ANNA MARIE DUEKER . . . . . *Assistant Bursar*

ANNA R. FOOTE . . . . . *Cashier*

DONALD MORRISON . . . . . *Superintendent, Buildings and Grounds*

FREDERICK GRANT ST. CLAIR, M.S. . . . . *Power Plant Engineer*

JAMES JOHNSTONE RITTERSKAMP, JR., B.S.B.A., LL.B.

*Purchasing Agent and Manager, The University Stores*

ROBERT J. EMONTS, B.S.B.A. . . . . *University Accountant*

## OTHER OFFICERS OF THE UNIVERSITY

OSCAR CARL ORMAN, B.A. in L.S., LL.B. . . . . *Librarian*

ELLA B. LAWRENCE . . . . . *Librarian (School of Medicine)*

MAUDE MCFARLAND HENNESSEY

*Assistant Librarian (School of Medicine)*

HELEN KAISER . . . . . *Assistant Registrar (School of Medicine)*

FRANK HENRY EWERHARDT, M.D.

*Director of Physical Education and University Health Service*

PHILO STEVENSON, A.B. . . . . *School Visitor*

STANLEY F. HAMPTON, A.B., M.D. . . . . *Campus Physician*

ROBERT W. KELLEY, A.B., M.D. . . . . *Campus Physician*

J. TED JEAN, M.D. . . . . *Physician to Medical and Dental Students*

E. KENDALL HARRISON, A.B.<sup>1</sup> . . . . . *Alumni Representative,*

*Head, Appointments and Employment Bureau,*

*Director, News Bureau*

<sup>1</sup> On leave of absence.

## MCMILLAN HOSPITAL AND OSCAR JOHNSON INSTITUTE

The operation of the McMillan Hospital (for Eye, Ear, Nose and Throat) is now limited to its outpatient departments, which function as divisions of the University Clinics. The hospital services in Ophthalmology and Otolaryngology are located in the Barnes and St. Louis Children's Hospitals.

The Oscar Johnson Institute constitutes the research and teaching laboratories of the Departments of Ophthalmology and Otolaryngology. It houses at present also research laboratories used by the departments of Research Pathology, Internal Medicine, Biophysics and Neuropsychiatry.

### SOCIAL SERVICE DEPARTMENT OF WASHINGTON UNIVERSITY CLINICS AND ALLIED HOSPITALS

MISS MARY K. TAYLOR . . . . .	<i>Director</i>
MISS ISABEL BERING . . . . .	<i>Administrative Assistant</i>
MISS MURIEL GAYFORD . . . . .	<i>Educational Assistant</i>

#### OFFICERS OF THE BOARD OF MANAGERS

MRS. ROBERT A. HOLLAND, JR. . . . .	<i>President</i>
MRS. STANLEY STONER . . . . .	<i>First Vice-President</i>
MRS. EDWARD MALLINCKRODT . . . . .	<i>Second Vice-President</i>
MRS. J. LIONBERGER DAVIS . . . . .	<i>Treasurer</i>
MISS CARLOTA GLASGOW . . . . .	<i>Assistant Treasurer</i>
MRS. STONER CARLING . . . . .	<i>Secretary</i>
MRS. SAMUEL C. MCCLUNEY . . . . .	<i>Assistant Secretary</i>

## THE AFFILIATED HOSPITALS

### THE BARNES HOSPITAL

#### ADMINISTRATION

FRANK R. BRADLEY, M.D. . . . .	<i>Superintendent</i>
E. B. QUARLES, M.D. . . . .	<i>Assistant Superintendent</i>
CORNELIA S. KNOWLES, R.N. . . . .	<i>Chief Admitting Officer</i>
HARRY C. DUNHAM . . . . .	<i>Business Manager</i>

Appointment to the staff of the Hospital is indicated under the individual's name in the staff list of the School.

### ST. LOUIS CHILDREN'S HOSPITAL

#### ADMINISTRATION

ESTELLE D. CLAIBORNE, R.N. . . . .	<i>Superintendent</i>
LILLY D. HOEKSTRA, R.N. . . . .	<i>Assistant Superintendent</i>
MARY M. REYNOLDS, R.N. . . . .	<i>Assistant Superintendent</i>
MARJORIE M. MOORE, R.N. . . . .	<i>Superintendent of Nurses</i>
JUNE MCILVIN, R.N. . . . .	<i>Admitting Officer</i>
RUTH COLLMEYER, R.N. . . . .	<i>Admitting Officer</i>

Appointment to the staff of the Hospital is indicated under the individual's name in the staff list of the School.

## ST. LOUIS MATERNITY HOSPITAL

MARY J. KEITH . . . . . *Superintendent*

Appointment to the staff of the Hospital is indicated under the individual's name in the staff list of the School.

## UNIVERSITY CLINICS

Outpatient Departments of the Barnes, the St. Louis  
Children's, the St. Louis Maternity and  
the McMillan Hospitals

## BOARD OF MANAGERS

MR. WALTER V. SCHOLZ . . . . .	<i>President</i>
MRS. EUGENE MCCARTHY . . . . .	<i>Vice-President</i>
DR. JOHN V. LAWRENCE . . . . .	<i>Secretary</i>
MR. DONALD G. GIBBINS . . . . .	<i>Treasurer</i>

MRS. HORTON WATKINS  
MRS. JOHN HASKELL  
MR. WILLIAM H. DANFORTH  
MISS MILDRED MCCLUNEY

MR. T. W. VAN SCHOIACK  
MRS. ROBERT A. HOLLAND, JR.  
MR. LEMUEL R. CARTER  
DR. MALVERN B. CLOPTON, *ex officio*

---

JOHN V. LAWRENCE . . . . .	<i>Director of Clinics</i>
EDNA MILLER GIBSON . . . . .	<i>Supervisor of Nursing</i>
FLORA ROBINSON WELLS . . . . .	<i>Record Librarian</i>
J. S. CRAWFORD . . . . .	<i>Optician</i>

The University Clinics is conducted by the medical school under the supervision of a separate Board of Managers. Formerly called the Dispensary, the present name was adopted in 1932 when the outpatient service was reorganized to serve more efficiently as a means of teaching private and group medical practice. It represents as well a medical service to the community, and affords examples to medical students of their social and community obligations. The number of patient visits to all clinic subdivisions during the past year was 133,055.

Appointment to the staff of the Clinics is indicated under the individual's name in the staff list of the School.

## THE ST. LOUIS CITY HOSPITALS

The University nominates to the Hospital Commissioner Visiting Physicians and Surgeons to the City Hospital, the Homer G. Phillips Hospital and the Malcolm A. Bliss Psychiatric Institute. Those holding appointments in the University Staffs of these hospitals are designated in the staff list of the School.

## HISTORICAL STATEMENT THE SCHOOL OF MEDICINE<sup>1</sup>

The first medical schools established west of the Mississippi River were organized as departments of the Roman Catholic St. Louis University and of the Protestant Episcopal Kemper College, in which departments courses of instruction were first offered in 1842 and 1840, respectively. From these origins there arose two independent schools, the St. Louis Medical College popularly known as "Pope's College," and the Missouri Medical College or "McDowell's College," the union of which formed the Medical Department of Washington University. Accounts of the history of these medical schools are to be found in the Centennial Volume of the St. Louis Medical Society and in the Medical Alumni Quarterly of Washington University.

The discontinuance of Kemper College in 1845 led the founder of its medical department, Dr. Joseph Nash McDowell, to establish his faculty by legislative act as a part of the State University of Missouri. In 1855 this relationship was terminated by incorporation of the Missouri Medical College as an independent institution. After interruption by the Civil War it was resumed and in 1866 was again affiliated for a brief period with the State University. In 1899 it became united with the St. Louis Medical College which eight years earlier had become the Medical Department of Washington University.

In 1855 the medical faculty of St. Louis University withdrew from that affiliation and under the leadership of Dr. Charles Alexander Pope incorporated the St. Louis Medical College, which maintained independent status until 1891, when it became the Medical Department of Washington University, retaining its own name however until the union with the Missouri Medical College in 1899.

The Medical Fund Society, an association of members of the St. Louis Medical faculty, had an important part in securing financial support for the erection of buildings and for operation of that school during the period preceding its affiliation with the University and until the reorganization in 1910. The Medical School building at 1806 Locust Street, which housed

<sup>1</sup> A brief historical statement of other departments of the University appears in the bulletin of the College of Liberal Arts.

the laboratories of all departments and the outpatient dispensary until the School moved to its present site on Kingshighway, was erected in 1891 for the St. Louis Medical College by the Medical Fund Society.

With the union of the two medical schools in 1899 under University auspices, the faculty was enlarged, clinical facilities were increased, additional space and equipment were obtained, the curriculum was strengthened and greater opportunity for investigation was provided. The Missouri Medical College building on Jefferson Avenue was remodeled and converted into the Washington University Hospital. About this time (1905) the Maternity Department was opened and the Training School for Nurses was begun. The Polyclinic Hospital, with an addition, became the Washington University Dispensary. The Martha Parsons Children's Hospital was affiliated in 1906.

In 1910 the Corporation of the University, with the cooperation of the Medical Faculty, reorganized the School in all departments and appointed new heads of departments and their assistants in anatomy, physiology, biological chemistry, pathology, medicine, surgery, and pediatrics, who devote themselves to teaching and research. Associated with this staff clinical instructors were chosen from the medical profession of St. Louis. These changes were made with the aid of funds donated by philanthropic citizens of St. Louis. The inspiration for this movement came from Robert Somers Brookings, then President of the Corporation, who contributed his fortune toward the realization of his plans. For four years the reorganized school continued to occupy the laboratory and clinic building erected by the Medical Fund Society on Locust Street, and as the University Hospital the building on Jefferson Avenue formerly used by the Missouri Medical College.

In 1914 the Medical School moved to new buildings facing Forest Park on the corner of Kingshighway Boulevard and Euclid Avenue, to form part of a new medical center which comprised also the Robert A. Barnes Hospital, the St. Louis Children's Hospital and the Out-Patient Dispensary (later called the University Clinics).

The next institution to join the group was the St. Louis Maternity Hospital which moved into the present building in 1927. In 1931 the McMillan Eye, Ear, Nose and Throat Hospital, provided by the bequest of Mrs. Eliza McMillan and the



Oscar Johnson Institute, the gift of several donors, were erected by the University. The Edward Mallinckrodt Radiological Institute, the gift of Mr. Mallinckrodt and his son, was erected in 1931 and has since provided the X-ray services for the whole group.

Prior to the reorganization of the Medical Department the requirement for admission had been a four year high school course. In 1910 the requirements were raised to one year of collegiate study of specific subjects. In 1912 two college years, and in 1925 three years, were required. Four years of collegiate work leading to the bachelor's degree became, in effect, the requirement for admission in 1931.

It is now the opinion of the faculty that greater emphasis is needed on the quality rather than the quantity of college preparation, and that the stated requirements for admission should allow much freedom for the selection of courses and programs of study best suited to the aptitudes and interests of the individual student. In keeping with this policy, it has been decided to abolish the requirement of the bachelor's degree for admission and to refrain from defining in credit units the required preparation in science subjects. As stated elsewhere (p. 45), greater weight will be given to personal qualifications and to the quality of individual accomplishment.

### LABORATORIES AND CLASS ROOMS

The laboratories and lecture rooms of departments representing the medical sciences are housed in three medical school buildings, commonly referred to as the North, South and Clinic-Pathology Buildings. The North Building contains the Medical Library, the Administrative Offices, the main Auditorium, the laboratories of experimental Surgery and the departments of Anatomy and Histology.

The South Building houses the laboratories of Physiology, Pharmacology and Biological Chemistry. The Clinic-Pathology Building contains the University Clinics, teaching and research laboratories of the department of Internal Medicine and the departments of Bacteriology and of Pathology. The autopsy rooms, mortuary and amphitheater, serving the group of hospitals, occupy an annex to this building.

The Oscar Johnson Institute comprises six floors of laboratories and class rooms devoted primarily to teaching and research in Ophthalmology and Otolaryngology. The Institute houses also research laboratories now used temporarily by the

departments of Research Pathology, Internal Medicine, Biophysics and Neuropsychiatry.

### CLINICAL FACILITIES

The affiliation of the Barnes Hospital, the St. Louis Children's Hospital, the St. Louis Maternity Hospital, the McMillan Eye, Ear, Nose and Throat Hospital and the Oscar Johnson Institute, with the School of Medicine, and their location together on one plot of ground makes this group of institutions for teaching purposes integral parts of the School of Medicine.

By the terms of the affiliation the Faculty of the School constitutes the professional staffs of these hospitals as well as of the University Clinics, an arrangement that makes for continuity of medical care and instruction in all divisions. The Clinics serve as outpatient departments of the hospitals, and furnish instruction in the care of ambulatory patients.

About 133,000 visits are made yearly to the University Clinics in all departments. The Barnes Hospital has 425 beds, of which about 200 are in wards used for undergraduate teaching, allocated mainly to the departments of Medicine and Surgery. The St. Louis Children's Hospital has 208 beds and the St. Louis Maternity Hospital 100 beds plus 100 bassinets. Patients on the ophthalmological and otolaryngological services are assigned to the various hospitals.

In addition to the laboratories located in the hospitals for the performance of the simpler diagnostic tests by house officers and students, there are various special laboratories in the Medical School buildings for the more elaborate procedures used in diagnosis. The conduct of these laboratories, as well as the care of patients in the Affiliated Hospitals and in the University Clinics is directed by the several clinical departments.

In all departments of the School there are also special laboratories with facilities for study and research which are made use of in connection with clinical work in the hospitals.

The Mallinckrodt Radiological Institute, built adjacent to and connected on each floor with the Barnes Hospital, is owned by the University and is operated as a department of the Medical School. It provides excellent facilities for X-ray examination and therapy which are utilized by all of the affiliated Hospitals and affords exceptional opportunities for both undergraduate and graduate teaching. By a special endow-

ment the staff of the Radiological Institute is enabled to carry on researches in both clinical and experimental subjects, independently and in collaboration with other departments. The staff includes residencies for the training of graduate physician radiologists.

The patients in certain of the St. Louis City Hospitals are also utilized for both undergraduate and graduate teaching. By arrangement with the Hospital Commissioner, the Medical School nominates the staffs for a unit (one-third) of the City Hospital, a unit (one-half) of the Bliss Psychiatric Institute, and the senior staff (1941-43) of the Homer Phillips Hospital. The facilities of these large and varied hospital services are being increasingly used for teaching and research by organized staffs from all clinical departments of the School. The Isolation Hospital (for contagious diseases) and the City Sanitarium (for mental diseases) are also used for study and teaching in these subjects.

Through arrangement with its staff, students observe patients in the St. Louis Shriners' Hospital for Crippled Children, which adjoins the Medical School.

The number of patients available in these hospitals provides abundant and varied clinical material under favorable conditions for demonstration, examination and study by the students under immediate supervision of the staff.

### LIBRARY

The Library contains (October 1, 1941) 57,464 bound volumes and receives 514 medical periodicals, selected with reference to the needs of students and investigators. There are 755 complete sets of periodicals.

The Library has acquired by gift and by purchase a number of private collections on medical history and on the various branches of clinical medicine. Among these is the collection of manuscripts, letters and other valuable material of the pioneer American physiologist, William Beaumont. A special room, the Beaumont Room, has been set aside for the exhibition of this priceless collection of documents.

The Library is open weeks days from 8:00 a. m. to 10:00 p. m. During the summer vacation the hours are 9:00 a. m. to 5:00 p. m.

Other libraries in St. Louis containing literature relating to medicine, which are available to students, include the library of Washington University, the Mercantile Library, the

St. Louis Public Library, the library of the St. Louis Medical Society and the library of the Missouri Botanical Garden.

#### LECTURESHIPS

The Mu Chapter of the Phi Beta Pi fraternity has established an annual lectureship in honor of Dr. Leo Loeb, Professor Emeritus of Pathology.

The Alumni of the School have established a Robert J. Terry Lectureship Fund "for the purpose of fostering greater appreciation of the study of human anatomy in relation to the teaching and practice of medicine."

## REQUIREMENTS FOR ADMISSION

The first year class is now limited to eighty-two students. From a much larger number of applicants the Faculty Committee on Admissions tries to select those who appear to be best fitted to take up the study of medicine. The selection is based mainly on two considerations: the personal qualities of the applicant and his, or her, scholastic attainments. In judging a candidate's qualifications, the committee is disposed to give great weight to evidence of personal fitness, ability, and interest; and to be rather less concerned as to the number of credits in required courses than with the quality of the work and with the student's interests as indicated by the courses he has chosen.

The personal qualities regarded as essential are, besides intellectual ability, an awakened interest, initiative and industry, health and character,—without which the accumulation of scholastic credits will not qualify a student for medicine. Evidence regarding personal qualities is secured from the opinions of college teachers and others well acquainted with the applicant, from interest and aptitude tests and from personal interviews.

Medicine is concerned with such a variety of community, social and individual problems as to demand of all entering this profession a cultural as well as a technical education. The college should lay foundations for both. The foundation for the technical part of education for medicine consists primarily of acquaintance with the elementary facts and principles of chemistry, physics and biology. A thorough drill in the principles of science is necessary for a comprehension of the expanding knowledge of the medical sciences upon which the advances of modern medicine are based, and also is the effective way to cultivate the type of mental discipline that is essential in the study and practice of medicine.

Courses in the basic sciences, if confined to the minimum, will occupy about one-fourth of a full four year college schedule. This much of the pre-professional preparation must have a measure of uniformity of content, designed for use in the medical sciences. But the rest of the college work should be chosen with the object of developing the intellectual talents of the individual, rather than as required pre-professional preparation. Only to the extent that he acquires primary interests in a particular field of science, should a student concen-



trate his studies in that direction. In any case, the college work should include courses in language and literature, history, and the social sciences, or other subjects which may afford the foundation for cultural development. Unless that foundation is laid early, there is the danger that later demands of technical and professional training may lead to its neglect.

Another guiding principle should be the recognition that the interest and earnestness with which any study is done measures its lasting value. The spirit of a course is more important than its content, if it stimulates interest, cultivates an inquiring and thoughtful attitude. Development of an inclination to study and the habit of reasoning, whatever the subject matter may be, is more valuable than an obligatory course taken merely to satisfy entrance requirements.

To be eligible for admission to the first year class the following minimum scholastic requirements, interpreted in the spirit of the above statement of principles, must be met:

1. Satisfactory completion of college courses covering the equivalent of not less than three years' work toward the Bachelor's degree in an approved university or college. (About 80 percent of those accepted in recent years were college graduates.)
2. The college work must include:
  - a. A knowledge of English such as is required for the Bachelor's degree by approved colleges. The importance of acquiring facility in the accurate and discriminating use of English deserves emphasis.
  - b. A knowledge of the principles of inorganic and organic chemistry. (The work in inorganic chemistry must include laboratory work covering the elements of volumetric analysis.)
  - c. A knowledge of the principles of physics, afforded by a course including laboratory work of quantitative character.
  - d. A knowledge of the principles of general biology afforded by a course or courses with laboratory work.

Applicants are expected to have taken the Medical Aptitude Test of the Association of American Medical Colleges.

The source of much fundamental knowledge of the sciences and of medicine is in languages other than English, especially in German and French. For those who desire to have access to this literature, a reading knowledge of these languages is necessary.

Applications for admission should be filed as early as possible, and in all cases before March 1 of the year during which admission is sought.

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Within ten days after notification of acceptance, successful applicants are required to send to the Registrar a deposit of fifty dollars, to be applied toward the first payment of tuition. The deposit is not returnable.

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If a student does not register on the days designated, his place in the class may be lost unless the Registrar is notified in advance and postponement is allowed.

*Application blanks will be furnished upon request. After supplying all information called for therein, the applicant should return the blanks and, in addition, should request his college to send directly to the Registrar complete official transcripts of high school and college credits. To aid in judging the fitness of an applicant, the student's science instructors should be requested by him to send personal letters to the Dean, giving estimates of the student's ability, character and personality.*

#### ADMISSION TO ADVANCED STANDING

Applications for advanced standing will be considered only insofar as there are vacancies in the classes. Applications should be filed early, and under any circumstances before March 1 for admission the following September. Only those students who have unconditional standing in the medical schools from which they seek to be accredited are considered for admission to advanced classes. Within ten days after notification of acceptance, successful applicants are required to send to the Registrar a deposit of fifty dollars, to be applied toward the first payment of tuition. The deposit is not returnable.

Applicants for advanced standing (1) must furnish evidence that the requirements for admission to the first year class have been fulfilled; (2) must have studied as a matriculated medical student in an acceptable medical school for a period of time at least equal to that already spent by the class to which he seeks admission; (3) must show that courses equivalent in kind and amount to those given in this School, in the year or years preceding that to which admission is desired, have been satisfactorily completed; and (4) in doubtful

cases may be required to pass an examination in any of the subjects for which credit is sought.

Only rarely are new students accepted for the fourth year class.

In addition to the credentials required for admission, applicants for advanced standing are required to furnish credentials from the medical school in which they have studied, enumerating all medical courses pursued, grades obtained, and stating the dates of their registration as matriculated medical students.

### ADMISSION OF GRADUATES IN MEDICINE

Applicants who already hold the M.D. degree are rarely admitted to the School as candidates for that degree, but may be admitted to the School on the following basis. (1) With the consent of heads of the departments concerned graduates may take individual work in one or more departments as special students. (2) A limited number of graduate physicians, or others who may be qualified, may be admitted to courses with the undergraduate classes subject to the consent of the instructors and the head of the department. Fees for special courses, individual instruction or material will be determined in each case by the Dean in conference with the head of the department in which the work is done. (3) Special post-graduate courses are offered in several departments concerning which full information will be given upon request. (See p. 89.) (4) Qualified investigators may be accepted as volunteer research assistants upon the written recommendation of the head of the department.

### STANDING AND PROMOTION

The following new procedure for action on promotion and graduation has been adopted.

(1) After the completion of a major course each department reports to the dean's office the order-rank of each student in the class for that course, designating in each case "honors," "pass" or "fail." The rank and designation may be based upon attitude and performance as well as upon examination grades.

(2) For each class there is a Promotions Committee which periodically reviews the records of all students in that class and acts in accordance with the following rules.

(a) A student having recorded failures in two major subjects (see list below) will be required to withdraw from the class.

**Major Subjects.**

First Year: Anatomy, Cytology, Biochemistry, Physiology ( $\frac{1}{2}$ ).

Second Year: Physiology ( $\frac{1}{2}$ ), Bacteriology, Pathology, Pharmacology, Medicine, Surgery ( $\frac{1}{2}$ ).

Third Year: Medicine, Neuropsychiatry, Obstetrics and Gynecology, Surgery, Public Health ( $\frac{1}{2}$ ).

Fourth Year: Medicine, Obstetrics and Gynecology, Pediatrics, Surgery, Ophthalmology ( $\frac{1}{2}$ ), Otolaryngology ( $\frac{1}{2}$ ).

(b) All students will be promoted to the next class who rank in the upper four-fifths of the class in at least 60% of the scheduled clock hours, provided there are no failures.

(c) All students who rank in the lower one-fifth of the class in more than 40% of the scheduled hours or who are in the lower one-fifth of the class in two major subjects, or who fail one of the third year objective examinations (see below) shall be considered as having a condition for the year's work.

This condition may be removed by the appropriate committee on promotion upon the basis of: (1) The Student's record; in evaluating a student's record, the committee shall consider not only scholarship, but also social, economic and other personal factors. (2) A special comprehensive examination given under the direction of the subcommittee in September. A student who fails this examination shall be required to withdraw from his class.

(d) Students who at the end of any year have recorded only one failure in a major department will be required to remove this failure as directed by the department concerned. When, and if, the failure is removed, the subcommittee will consider the student's entire record under rules (b) and (c) above. A student who has recorded a second failure in the attempt to remove a first failure will be required to withdraw from his class.

(e) No student shall be promoted to the third year until there is satisfactory credit for all required subjects of the first and second year.

(f) Under exceptional circumstances the promotion committees may suggest to the Dean and to the Committee on Admissions and Scholarships that a student be allowed to repeat certain courses as a special student or to repeat the work of the entire year as a member of the next class.

For the general guidance of the committee on promotion for

the third year, all students are required to take two written comprehensive examinations of the objective type, during the third year. An examination in November will test the student's ability to correlate the preclinical sciences with the clinical sciences. An examination in May will cover the subject matter of the third year. These examinations are held under the direction of the committee on promotion for the third year.

A student who fails either of the above examinations will be considered under rule (c) of section 2 listed above.

The objective examinations do not replace departmental examinations.

A student who, because of poor quality of work or conduct, is judged by the Committee as unqualified to continue the study of medicine, will be required to withdraw from the School.

The registration of a student may be canceled at any time if in the opinion of the faculty his further attendance is deemed undesirable. A pro rata refund of the tuition will be made in such cases.

## REQUIREMENTS FOR DEGREES

### DOCTOR OF MEDICINE

Candidates must be more than twenty-one years of age and of good moral character. They must have attended not less than four annual courses of instruction as matriculated medical students, the last of which has been in this School. They must have passed all required courses, or their equivalent, and have received satisfactory grades in the work of the entire four years. They must have discharged all indebtedness to the School.

At the end of the fourth year students who have fulfilled these requirements will be recommended for the degree of Doctor of Medicine. Candidates must be present when degrees are conferred.

### BACHELOR OF SCIENCE IN MEDICAL SCIENCE

Students may become candidates during the medical course for the degree of Bachelor of Science in Medical Science, provided the quality of work done in required courses is satisfactory. Acceptance as candidates for this degree is granted not earlier than after completion of the courses of the first year. Requirements for the degree are the satisfactory conduct of an investigation in one of the medical sciences and the prep-



aration of an acceptable thesis, which must be presented to the head of the department concerned by May 1st of the year the degree is to be awarded. Compliance with the requirements for this degree will not usually be attained before the end of the third or fourth year.

### INTERN APPOINTMENTS

An internship in an approved hospital is regarded as necessary in preparation for the practice of medicine. The School does not assume responsibility for securing intern appointments for its graduates; but it does aid both students and hospitals in arranging for satisfactory selections. During the junior and senior years students confer with the Assistant Dean who advises them concerning the character of the services offered by various hospitals and thus aids the student in selecting the hospital of his choice. The Assistant Dean also advises the hospitals concerning the qualifications of students who apply for appointment. Virtually every graduate of the School is placed in a suitable internship.

About half of the members of each class now secure appointments in hospitals of St. Louis, most of them in rotating services.

There are about seventy positions on the house staffs of the hospitals in the Medical Center. This number includes residencies as well as internships, nearly all of which are straight services limited to a single department. Appointments are made on nomination by the heads of the respective departments, and in most cases are available only to those who have completed another internship. A few appointments in medicine, in pathology and in surgery are made to high ranking members of the graduating class.

### PRIZES

#### GEORGE F. GILL PRIZES:

1. One prize of fifty dollars is awarded at the end of the first year to the member of the class who has made the highest grade in anatomical work.

2. One prize of fifty dollars is awarded to a member of the graduating class, of high general standing, who has done especially good work in the Department of Pediatrics.

ALPHA OMEGA ALPHA FRATERNITY PRIZE is awarded at the end of the fourth year to the member of that class who has made the highest average for the entire medical course.

The ALEXANDER BERG PRIZE of one hundred dollars is awarded to a student of high general standing who presents the best results in research in bacteriology.

THE HOWARD A. MCCORDOCK BOOK PRIZE is awarded at the end of the second year to a member of that class for general excellence in pathology.

### FELLOWSHIPS AND SCHOLARSHIPS

The JACKSON JOHNSON FUND. Under the will of the late Mr. Jackson Johnson the sum of \$250,000 was given to the University, the income to be used "to aid worthy and desirable students in acquiring and completing their medical education." The income of this fund is now being devoted mainly to Honor Scholarships named for the donor.

The purpose of the Jackson Johnson Scholarships is to enable students of exceptional ability and performance, regardless of their financial resources, to enter upon training for careers in medicine and medical sciences. The awards are restricted to those judged to possess definitely superior talents and qualifications, and are made initially only to applicants accepted for the first year class in the School of Medicine. The award may be continued for each of the later years of the course provided the quality of the student's work justifies it.

The amount of the stipend is not fixed, being determined in each case by the need of the individual for financial aid. Award of a Jackson Johnson Scholarship is regarded as a mark of distinction, and carries certain privileges in the School. When made to students not in urgent need of financial aid, the award carries no stipend or only a nominal stipend. For those recipients whose resources are inadequate for tuition and living expenses, the stipends will be set at amounts that will permit maintenance during the academic year without outside employment for support. Holders of these scholarships are not permitted to engage in outside employment, except with the consent of the Dean. The object is to aid in providing favorable circumstances for the development of the student's talents. Employment having educational value in laboratories of the School, with or without compensation, is occasionally available to holders of scholarships as also to other students. During the year 1941-42 there are twenty-seven holders of Jackson Johnson Scholarships in four classes,

the average stipend being \$550. The maximum (including stipends of student-assistantships) is \$900.

Applications for 1942-43 will close on January 1, 1942. Applications for 1943-44 should be submitted, on blanks provided for the purpose, between October 1, 1942 and January 1, 1943.

Emergency loans in limited amounts are available from the Jackson Johnson Fund for students in the upper three classes of the School, when needed to meet unexpected emergencies during the academic year. The loans are granted by the Chancellor on the recommendation of the Dean.

A FELLOWSHIP IN NEUROLOGICAL SURGERY with a stipend of \$1200 per year is awarded on recommendation of the Department of Surgery. Candidates must be graduates in medicine who will have completed an internship.

A MEMORIAL FELLOWSHIP with a stipend of \$500 is supported by a gift from an anonymous donor in memory of his brother. It is awarded for one year to a graduate of the School, preferably a woman, for post-graduate study in anaesthesia, radiology, pathology, clinical pathology, immunology, public health or related fields.

The GEORGE F. GILL SCHOLARSHIP, instituted in memory of the late Dr. George F. Gill, Clinical Professor of Pediatrics, entitles the holder to remission of the tuition fee to the amount of \$100.

THE ALUMNI SCHOLARSHIP AWARD of \$100 to be applied on the payment of the tuition fee is given for excellence in work during the preceding scholastic year on the recommendation of the Committee on Loans and Scholarships and the President of the Medical Alumni Association.

The DR. JOHN B. SHAPLEIGH SCHOLARSHIP. From a bequest of the late Dr. John B. Shapleigh, supplemented by contributions by the late Mrs. Shapleigh and Miss Margaret Shapleigh, a fund has been established the income of which is used to pay the tuition of students in need of assistance.

The ELIZA McMILLAN STUDENT AID FUND. From the bequest of the late Mrs. Eliza McMillan, the annual income on \$7,000 provides a scholarship for a deserving woman student in the School of Medicine.

The T. GRISWOLD COMSTOCK SCHOLARSHIPS. Through the bequest of the late Mrs. Marilla E. Comstock, the annual income from \$12,000 is used for two scholarships for students who otherwise would be unable to obtain a medical education

and who desire and intend to follow the practice of medicine and surgery.

**THE JOSEPH H. ROBLEE SCHOLARSHIPS.** Provided through the gift of Mrs. Florence A. Roblee (Mrs. Joseph H. Roblee), the income from the Joseph H. Roblee Scholarship Endowment Fund of \$12,000 maintains two scholarships annually. They are awarded by the Chancellor to qualified, worthy and deserving students in any division of the University.

**THE ROBERT ALLEN ROBLEE SCHOLARSHIPS.** Through the gift of Mrs. Florence A. Roblee (Mrs. Joseph H. Roblee) the income from the Robert Allen Roblee Scholarship Endowment Fund of \$15,000 provides one or more scholarships for qualified, worthy, and deserving students.

**ANDREW RANKIN FLEMING AND SUSIE FLEMING FUND.** Through the bequest of the late Mrs. Susie Fleming, \$150.00 from the income of this Fund is available annually for scholarships for worthy and needy students in the School of Medicine.

**THE ALINE RIXMAN LOAN FUND.** Provided through the gift of Mr. William Rixman the fund is used to alleviate unexpected financial emergencies that arise among medical students during the academic year. The fund is available to any student who in the judgment of the Dean gives promise of becoming a competent physician. It is expected that loans will be repaid within a reasonable time after the student has finished his training. The loans are granted by the Chancellor on the recommendation of the Dean.

**THE W. MCKIM MARRIOTT SCHOLARSHIP AWARD,** instituted in memory of the late Dr. W. McKim Marriott, Dean and Professor of Pediatrics, by Dr. C. V. Mosby for the C. V. Mosby Co. entitles the holder to an award of \$500 which provides tuition for the recipient in the School of Medicine. The scholarship is awarded annually preferably to a deserving young man who shows promise in the field of pediatrics. The award is made by the Chancellor on the recommendation of the Dean and the Professor of Pediatrics.

**STUDENT ASSISTANTSHIPS** are available in a number of departments in the School. Information concerning these may be obtained from the heads of the departments concerned.

Applications for all fellowships, scholarships and assistantships may be made to the Dean. The awards are made by the Chancellor on the recommendation of the Dean.

## REGISTRATION

Registration for the first half year, 1942-43, is scheduled for Monday, September 21, and Tuesday, September 22, 1942; for the second half year, Monday, February 1, 1943. Hours for registration are 9 to 11:30 and 2 to 5 daily.

Previously matriculated students who fail to register on any of the days set aside for that purpose will be charged a fee of \$3.00.

## FEES AND EXPENSES

The University reserves the right to change the fees herein stated at any time without notice. Whenever a change is made, it will become effective with the next installment due for payment by the student.

All fees and charges are payable in advance at the office of the Treasurer in Robert S. Brookings Hall, or at the office of the Registrar of the School of Medicine. No rebate of the tuition fee will be made for absence, whether such absence occurs at the beginning, middle, or end of the semester, except in cases of prolonged illness, certified to by a physician. In such cases a partial refund may be made, which will not exceed one-half of the unexpired balance of the tuition for the term.

Checks should be made payable to Washington University.

**MATRICULATION FEE.** A matriculation fee of \$5.00 is required of all students upon initial registration.

**TUITION FEE.** For undergraduate students the tuition fee is \$500.00, payable in two equal installments, at the beginning of the first and second semesters.

Students taking less than full work are charged \$62.50 for the first one hundred hours or less of work. Students taking more than one hundred hours of work pay \$50.00 for each additional hundred hours.

**BREAKAGE DEPOSIT.** Each student is required to make a deposit annually (\$10.00 Juniors and Seniors; \$15.00 Freshmen and Sophomores) to cover breakage in the School of Medicine, clinics and hospitals. Any balance of this deposit will be returned at the end of each year. At any time the amount of breakage exceeds the amount of deposit an additional deposit will be called for.

**UNIVERSITY HEALTH SERVICE.** A fee of \$8.00 annually is charged each student for medical health service. This fee covers a complete medical and dental examination of the stu-



dent on admission to the School and the services of a physician available daily for medical consultation throughout the year.

**STUDENT ACTIVITIES.** A fee of \$10.20 a year, payable in two installments (one at the beginning of each semester) is charged all undergraduate students in the University for the support of athletics and several other student activities. This fee is under the control of the Board of Student Finances and provides admission to all athletic events and participation in certain other student activities. For students in the Medical School having a Bachelor's degree payment of this fee is optional.

**DIPLOMA FEE.** The diploma fee for the degree of Doctor of Medicine is \$5.00 and for the degree of Bachelor of Science in Medical Science is \$3.00. These fees are payable before Commencement.

#### MICROSCOPES AND DIAGNOSTIC INSTRUMENTS

Each student entering the Freshman class is required to possess a standard microscope equipped with a substage light.

All students are required to provide themselves with stethoscopes, ophthalmoscopes, otoscopes, hemocytometers, percussion hammers, tape measures, flashlights, head mirrors and skin pencils as the need for them arises.

Supplies and books may be purchased at the bookstore located in the Medical School.

#### ESTIMATE OF EXPENSES

An estimate of the average annual expenses of a student in the School of Medicine, excluding the cost of clothes, laundry, microscope, and incidentals, is given below. The amounts will vary considerably, according to the individual.

Tuition . . . . .	\$500.00
Breakage Deposit . . . . .	\$10.00 or 15.00
Matriculation Fee (payable once) . . . . .	5.00
Health Service Fee . . . . .	8.00
Books and Instruments . . . . .	\$50.00 to 100.00
Room and Board (from \$6.00 to \$15.00 a week) . . . . .	210.00 to 500.00
Total . . . . .	\$783.00 to \$1,128.00

#### MEN'S DORMITORY OF THE SCHOOL OF MEDICINE

A dormitory building containing rooms for about fifty students is situated in close proximity to the School. A tennis court is located in the rear of the building. Each occupant

must furnish his own sheets, pillow cases, counterpanes and blankets; otherwise the rooms are furnished.

The rental of a room is \$90.00 for the academic year, payable in two installments in advance, at registration for the first and second semesters. Reservations are accepted only for the full academic year. Application for reservation should be made to the Registrar and must be accompanied by a reservation fee of \$10.00. This fee will be returned should the room not be assigned. If a room is assigned, the fee will be held by the University as a bond against possible damage to the room or furniture. Subject to such claim it will be refunded at the end of the academic year.

### GENERAL PLAN OF INSTRUCTION

Instruction in the School of Medicine is given to candidates for the degree of Doctor of Medicine, to graduate physicians, and to students in the School of Graduate Studies who may or may not be candidates for higher degrees. Courses which are open to students in the University, not candidates for the degree of Doctor of Medicine, are listed in the announcements of the College of Liberal Arts and of the School of Graduate Studies.

The course of study required of candidates for the degree of Doctor of Medicine is designed for students who have already received certain preliminary training. As stated in detail on p. 45, the student on entering the School must have a knowledge of chemistry, physics, biology, and English.

The medical curriculum, covering four years of 33 weeks each can be divided into two distinct periods.

The first period includes the first and second years. During this time the student studies the fundamental sciences of anatomy, biological chemistry, physiology, bacteriology, pathology and pharmacology. For this first period, the interest is concentrated primarily on the scientific basis of medicine, and every effort is made to train the faculty of critical and independent observation. Anatomy and biological chemistry are studied during the first year. In the second half of this year, the study of physiology begins. During the first third of the second year physiology and bacteriology are completed; and during the remainder of the year the courses in pharmacology and pathology are given, and physical diagnosis, medical observation, clinical chemistry and microscopy, and surgical technic are introduced, in preparation for the clinical work of

the second period of training. In preparation for more adequate instruction in Neurophysiology the study of medical psychology is begun in the first year and a closer correlation of neuroanatomy and neurophysiology is made with the clinical problems of psychosomatic medicine.

The second period, extending through the last two years, is devoted primarily to clinical work. The student receives practical instruction in the clinics and in the hospital wards of medicine, surgery, obstetrics and pediatrics and of the medical and surgical specialties. During his assignment to the wards of the hospitals the student at first is given practice and instruction in history taking, physical examination and elementary diagnosis and may then spend his entire day in the wards with duties differing little from those of a junior intern. The work in the clinics with ambulant patients occupies from six to eight hours per week for a year or more. Here the students under supervision act as physicians and as surgical dressers. During this period courses are given in surgical and gynecological pathology. Special emphasis is placed upon diagnosis of disease and treatment of patients. There are few purely didactic lectures. Instruction is given in clinics and at the bedside.

The scheduled courses, required of all students, occupy from thirty to forty hours a week during thirty-three weeks in each school year. As far as possible the schedules are arranged so as to leave free several half days each week. Those students who can profitably do so are encouraged to carry during their free time, and also during the summer, additional work in the subjects of their greatest interest. During any stage of his training the student may avail himself of the opportunity to develop his special interest in any one of the fundamental sciences or clinical subjects for which he has the prerequisites.

Optional courses are offered in all departments and supply a wide variety of subjects from which to choose. In general these courses are not assigned places in the schedule, and rarely is the number of hours specified; it is expected that such details will be arranged individually through consultation between the student and the instructor in charge.

With the approval of the head of the department concerned, a limited number of well qualified students may be allowed to complete their clinical clerkships during the summer months.

## COURSES OF INSTRUCTION ANATOMY

PROFESSOR COWDRY.

PROFESSOR EMERITUS TERRY.

VISITING PROFESSOR BAUMBERGER.<sup>1</sup>

ASSOCIATE PROFESSORS TROTTER, SCOTT, O'LEARY.

VISITING ASSOCIATE PROFESSOR MA WEN-CHAO.<sup>2</sup>

ASSISTANT PROFESSORS CHARLES, SEIB.

RESEARCH ASSOCIATES CRAMER, SIMPSON.

RESEARCH ASSOCIATE AND INSTRUCTOR MACCARDLE.

INSTRUCTORS BARTLETT, SCHWARTZ, EVANS, GARDNER.

ASSISTANT LANIER.

RESEARCH FELLOWS STOWELL, SUNTZEFF, LANSING.

RESEARCH ASSISTANT NIELSON.

STUDENT ASSISTANT SMITSON.

The anatomical sciences are presented in three regular required courses (gross anatomy, histology and neurology). These are supplemented by special lectures and demonstrations by members of other departments. Facilities are provided for special work in embryology, hematology, endocrinology and cytology. The Washington University Anatomical Collection, prepared during many years under the supervision of Dr. Terry, includes 1500 skeletons extensively documented and offers unsurpassed opportunities for research in physical anthropology. Once a week moving picture films loaned to the University by the Wistar Institute and other organizations are presented.

### FIRST YEAR

1. GROSS ANATOMY. Each student dissects one-half of the human body and is encouraged to learn as much as possible from the living subject. Extensive use is made of a wide variety of specimens displayed in the Anatomical Museum. X-ray films are regularly examined. There is occasional attendance at autopsies. Dissection 12 hours a week in the first trimester; 9 hours in the second and third. Lectures twice a week throughout the year. 407 hours.

(Drs. Trotter, Cowdry, Charles, Gardner, Lanier)

2. HISTOLOGY. A laboratory course occupying five mornings a week during the first trimester. Special attention is paid to the study of living tissues and to the correlation of gross and microscopic structure. There are two lectures a week and many informal discussions in the laboratories. 219 hours.

(Drs. Scott, Cowdry, O'Leary, Evans)

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<sup>1</sup> Jan. 1 to Dec. 20, 1941.

<sup>2</sup> Feb. 15 to Aug. 1, 1941.

3. **NEUROLOGY.** A laboratory course in gross and microscopical anatomy of the nervous system occupying six mornings a week during the first half of the second trimester. Three weekly lectures are devoted to subjects not easily presented by work in the laboratory. 100 hours.

(Drs. O'Leary, Scott, Evans, Schwartz)

#### THIRD YEAR

4. **ANATOMICAL DEMONSTRATIONS.** This course provides a review of regions and structures at the time when students are entering upon their clinical work. Demonstrations two hours a week during the second trimester. 22 hours.

(Drs. Charles, Bartlett)

#### ELECTIVE COURSES

5. *Topographical Anatomy.* Laboratory study of topographical anatomy may be undertaken at any time during the year. Sections, museum preparations, and models are used as material. Hours to be arranged.

6. *Dissection.* A six-weeks' course in Anatomy is offered at any time excepting August and September for students and physicians desiring to review the subject. Any of the following parts may be elected for study: head and neck, thorax and upper limb, abdomen and pelvis, lower limb. A fee will be charged for the course.

7. *Advanced Work in Gross Anatomy, Histology, Cytology, Embryology, Neurology and Physical Anthropology.* A study of the literature on certain selected problems accompanied by individual laboratory work. Hours to be arranged.

8. *Research.* Properly qualified individuals are encouraged to carry on research in the anatomical sciences. (See Bulletin of The School of Graduate Studies).

#### BIOLOGICAL CHEMISTRY

PROFESSOR SHAFFER.

ASSISTANT PROFESSORS ETHEL RONZONI BISHOP, URBAN.

INSTRUCTORS FREIBERG, PREISLER.

#### FIRST YEAR

3. **BIOLOGICAL CHEMISTRY.** Lectures, recitations, conferences and laboratory work covering those portions of the subject which are of especial importance to the student of medicine. Second semester, lectures and recitations four hours, and laboratory twelve hours a week. Lectures and recitations 81 hours, laboratory 183 hours.

(Drs. Shaffer, Ronzoni Bishop, Urban, Preisler)



## ELECTIVE COURSES

4. *Advanced Work.* Courses of laboratory work and selected reading, under guidance of a member of the staff, will be arranged to suit individual needs.

5. *Research.* The facilities of the department are available to students qualified to undertake investigation.

6. *Journal Club.* Conducted jointly by the Departments of Physiology, Pharmacology, and Biological Chemistry. Open to students who have credit in physiology or biological chemistry. Once a week throughout the year.

## PHYSIOLOGY

PROFESSOR ERLANGER.

VISITING PROFESSOR CARLSON.<sup>1</sup>

ASSOCIATE PROFESSORS H. LESTER WHITE,<sup>2</sup> GILSON.

ASSISTANT PROFESSORS PEUGNET,<sup>2</sup> EDGAR A. BLAIR.<sup>2</sup>

ASSISTANT SCHOEPFLE.

## FIRST AND SECOND YEARS

2. **PHYSIOLOGY.** Lectures covering systematically the field of human physiology with experience in the laboratory, designed primarily to meet the needs of medical students. The laboratory experiments are selected with the double object of supplying a basis for the understanding of the more important physical methods employed in physiology and in clinical medicine and of elucidating certain fundamental physiological principles. As far as practicable the student serves as the subject in these experiments. Open to students who have completed or have begun the study of anatomy and biological chemistry.

(a) Lectures and recitations. Second semester of the first year and first trimester of the second year. 115 hours.

(b) Laboratory. First trimester of the second year. 150 hours. (Drs. Erlanger, White, Gilson, Peugnet, Blair)

## ELECTIVE COURSES

4. *Demonstration Methods.* This course is designed primarily for students preparing to teach physiology, and who may desire a wider experience in experimental physiology than can be gained in Course 2. It consists mainly of experiments demonstrated in Course 2. The time and the amount of work are not limited, except that assistance must be arranged for by definite engagements.

<sup>1</sup> November 7 to December 6, 1941.

<sup>2</sup> On leave of absence for military duty.

5. *Research.* The facilities of the laboratory will be offered to qualified students for the investigation of their own problems or of problems which the department is prepared to suggest.

6. *Journal Club.* The Journal Club, conducted conjointly by the Departments of Biological Chemistry, Pharmacology, and Physiology, discusses papers of physiological interest appearing in the current journals. This course is open to properly prepared students only. Once a week throughout the year.

### BACTERIOLOGY AND IMMUNOLOGY

PROFESSOR BRONFENBRENNER.

ASSISTANT PROFESSORS VARNEY, HERSHEY.

INSTRUCTORS TSUCHIYA, MORRIS, HARFORD, SULKIN.

ASSISTANT KALMANSON.

STUDENT ASSISTANT FARGOTSTEIN.

The courses in Bacteriology and Immunology are given during the first and second trimesters of the second year of the medical curriculum, respectively.

Because the bulk of the students entering Medical School have had no elementary training in bacteriology and, as a rule, have no conception of aseptic technique, the first three weeks of the course are given over to a brief consideration of the elements of physiology of bacteria and to instruction in basic methods of pure culture study, utilizing non-pathogenic bacteria for this purpose. Only when their technique is reasonably safe are the students permitted to handle pathogenic bacteria and even then, as a measure of safety, no more than ten students are supervised by each instructor.

Since the time allotted for the teaching of Bacteriology is limited, students are not expected to become proficient in bacteriological or serological techniques. For the few students who may desire to develop technical proficiency, a special course in Diagnostic Technique has been arranged with the cooperation of the Laboratory Staff of the City Health Department.

The research facilities of the Department of Bacteriology are open to those medical students who have had sufficient previous training in bacteriology. Such students may undertake special investigations under the supervision of members of the department.

Through the generosity of the family of Alexander Berg, an annual prize is available in this department to be awarded

in recognition of excellence of such investigations by medical students.

In addition to instruction of medical students, the department offers graduate training to a limited number of students who have previously received their basic training in bacteriology elsewhere.

#### SECOND YEAR

1. BACTERIOLOGY. Lectures and Laboratory. A brief survey of General Bacteriology with a view of acquainting the students with the role of bacteria in the economy of nature and with methods of pure culture study. Special emphasis is placed on such aspects in the mutual relation between the bacteria and their environment which would bring out those basic characteristics of metabolic requirements and activities of bacteria which on the one hand may serve to identify the individual species and on the other to explain some of the effects of bacterial invasion. After a brief consideration of the mechanisms governing the mutually limiting relation of the resistance of the host and the invasiveness of the parasite, a number of more important communicable diseases, caused by viruses, bacteria, fungi, protozoa and metazoa, are studied individually with respect to epidemiology, means of laboratory diagnosis, specific therapy and prophylaxis, and general measures of control. Fifteen hours a week during the first trimester. 183 hours.

(Drs. Bronfenbrenner, Harford, Hershey, Morris,  
Sulkin, Tsuchiya, Varney)

2. INFECTION AND IMMUNITY. Consideration of the theories concerning the mechanism of immunologic reactions, both those occurring in vivo as well as those utilized for serologic procedures of diagnosis in vitro. Antigens, specific prophylaxis. Antibodies, their nature, significance in resistance to infection and as indices of past exposure. Serum therapy. Hypersensitiveness. One lecture and three hours of laboratory work each week during the second trimester. 44 hours.

(Drs. Bronfenbrenner, Harford, Hershey, Morris,  
Sulkin, Tsuchiya, Varney)

#### ELECTIVE COURSE

3. *Research.* The facilities of the laboratory are open to those properly qualified for research in Bacteriology and Immunology.

(Dr. Bronfenbrenner and Staff)

## PUBLIC HEALTH

PROFESSOR BRONFENBRENNER.  
ASSOCIATE PROFESSOR MCGAVRAN.  
ASSISTANT PROFESSOR VARNEY.  
INSTRUCTOR TSUCHIYA.  
LECTURERS BREDECK, WILLETT, PHILLIPS, BOARD, BUXELL.

The course in Public Health is given during the first and second trimesters of the third year of the medical curriculum.

The instruction in Public Health is carried on under the auspices of the Department of Bacteriology.

This arrangement has been made possible through the very generous cooperation of the staffs of the City and County Health Departments and of members of the Faculty of Washington University.

The required course in Public Health consists of forty-four lectures. In addition, for those of the students who are interested, an elective course consisting of twenty-two field trips is given during the first and third trimesters of the third year, under the supervision of professional health officers of the City and County. Usually upward of fifty per cent of the class avail themselves of this elective course.

## THIRD YEAR

1. PUBLIC HEALTH. Consideration of methods, regulatory and educational procedures leading to prevention of diseases and health hazards and promotion of physical and mental well-being of the community. Heredity and eugenics, prenatal care, infant and child hygiene, school hygiene, mental hygiene, industrial hygiene. Sanitation. Epidemiology and control of communicable and other preventable diseases. Vital statistics. Public Health Administration. Special health problems. 44 lectures.

(Dr. Bronfenbrenner, Dr. McGavran  
and Staff of Extramural Lecturers)

## ELECTIVE COURSE

2. *Public Health Field Work*. This is corollary to the basic course as given to third year medical students. The course consists of field trips and illustrated lectures covering public health, industrial, administrative, and other establishments whose activities are of interest to physicians and public health workers, and of a health survey. The class meets on Thursday afternoons during the first and third trimesters.

(Dr. McGavran, Dr. Bredeck, Dr. Varney,  
Mr. Board, Mr. Buxell)

## PATHOLOGY

EDWARD MALLINCKRODT PROFESSOR ROBERT A. MOORE.

PROFESSOR EMERITUS LOEB.

ASSISTANT PROFESSORS MARGARET G. SMITH, ROBINSON.

INSTRUCTORS WHEELER, HENRY ALLEN, W. O. RUSSELL, HELWIG, EDWARD SMITH, COOPER, HAMPP,<sup>1</sup> BARNFIELD.<sup>2</sup>

LECTURER POTE.

ASSISTANTS W. G. BROWN,<sup>3</sup> W. MOORE,<sup>4</sup> ERGANIAN, KENNEY, MARTIN,<sup>4</sup>

RESEARCH ASSISTANT MARY LUCY MILLER.

VISITING ASSISTANT WU.

The Department of Pathology occupies the entire third floor of the Clinic Building. The post-mortem rooms and amphitheatre are in a separate unit connecting with the first and second floors of the Clinic Building. There is a well arranged museum on the fourth floor and adequate facilities for experimental studies on the fifth floor.

Members of the department serve as pathologists to the Barnes Hospital, the St. Louis Children's Hospital, the St. Louis Maternity Hospital, the St. Louis County Hospital and the Barnard Free Skin and Cancer Hospital. Systematic records of over nine thousand cases, including protocols and microscopic slides, are available for study.

Clinico-pathological conferences conducted in collaboration with the departments of Medicine (Thursday at 12 noon), Surgery (Thursday at 4:30 P. M.), and Pediatrics (Thursday at 11 A. M.) are open to interested physicians and students.

Pathology is taught during the second, third, and fourth years. In the second year there is the course in General and Special Pathology, and in the third and fourth years the students attend the Clinical and Pathological Conferences conducted in collaboration with the Clinical Departments. In these Conferences, separate from the ones mentioned in the preceding paragraphs, an attempt is made to cover systematically in a period of two years most of the major diseases. The elective clerkship may be taken during the summer or during the school year. Graduate credit is given for all courses in the Department except number 4, Clinical and Pathological Conference, and number 10, Clerkship in Pathology at Washington University.

Properly qualified medical students will be admitted to any

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<sup>1</sup> Resigned August 21, 1941.

<sup>2</sup> Effective October 1, 1941.

<sup>3</sup> On leave of absence from July 15, 1941 to June 30, 1942 for military duty.

<sup>4</sup> July 1 to Dec. 31, 1941.



of the courses for credit. Pathology 1 is a prerequisite for all other courses.

#### SECOND YEAR

1. *PATHOLOGY.* General and special pathology are covered by lectures, gross and microscopic demonstrations and laboratory work. In general pathology, degenerations, inflammations, infectious diseases and tumors are considered. The diseases of each organ system are studied during the time devoted to special pathology. Small groups are given instruction in post-mortem technique, in gross pathology and in experimental pathology. Twelve hours a week in the second trimester and sixteen hours a week in the third trimester. 308 hours.

(Drs. Moore, M. G. Smith),  
Helwig, Wheeler, Russell, E. Smith, Allen and Staff)

#### THIRD AND FOURTH YEARS

4. *CLINICAL AND PATHOLOGICAL CONFERENCE.* The clinical history and treatment of patients who have died are discussed before the class by the physicians and surgeons of the departments concerned. These conferences afford the students an opportunity to interpret the clinical observations in the light of the post-mortem findings. One and one-half hours a week during the third and fourth years.

(Drs. Moore, Margaret Smith, Helwig, Russell)

#### ELECTIVE COURSES

5. *Major Research.* The laboratory offers facilities for research in pathology. Specialists and students with adequate training who desire to extend their knowledge of pathology will be admitted.

(Drs. Moore, Margaret Smith)

6. *Journal Club.* The current journals concerned with morphological and experimental pathology and oncology are reviewed by the members of the staff. Properly prepared students may attend or participate. Once a week throughout the year.

7. *Seminar in Gross Pathology.* The autopsies for the affiliated hospitals are performed by the junior members of the staff. On one afternoon a week the entire Department meets, and the cases are evaluated by the senior staff.

(Drs. Moore, Margaret Smith)

8. *Seminar in Microscopic Pathology.* The microscopic sections from each autopsy are presented by the prosector at a conference held once a week. Pertinent articles from the cur-

rent literature are presented and discussed as they apply to the cases under consideration.

(Drs. Moore, Margaret Smith)

9. *Seminar in Theoretical and Experimental Pathology.* Topics in General Pathology are selected and assigned to members of the junior staff and to qualified students for review. Once a week. (Dr. Moore)

10. *Clerkship in Pathology at Washington University.* Not to exceed six students at one time may serve as clerks in the Department of Pathology. The students will assist at autopsies and prepare reports for presentation at a seminar once a week. These students will also attend the regular departmental conferences and journal club. Full time for four, six or eight weeks. All quarters. (Drs. Moore, M. G. Smith, Helwig, Russell, E. Smith and Staff)

11. *Minor Research.* Those students who during a preceding summer or school year have initiated a research problem in Pathology may continue the work during the elective quarter of the fourth year. Full time for eight weeks. All quarters. (Drs. Moore, Margaret Smith)

#### THE EDWARD MALLINCKRODT DEPARTMENT OF PHARMACOLOGY

PROFESSOR CARL F. CORI.  
ASSOCIATE PROFESSOR HELEN TREDWAY GRAHAM.  
RESEARCH ASSOCIATES GERTY T. CORI, GREEN.  
RESEARCH ASSOCIATE AND INSTRUCTOR OCHOA.  
RESEARCH ASSISTANTS LOEFFEL, COLOWICK.  
STUDENT ASSISTANTS SUTHERLAND, SHAHAN.

The course in Pharmacology is designed to acquaint the students with the reactions of the body to drugs in health and disease.

#### SECOND YEAR

1. PHARMACOLOGY. (a) Lectures, recitations and demonstrations covering the general field of pharmacology, including toxicology, chemotherapy and prescription writing. Three hours a week during the second trimester and two hours a week during the third trimester. 55 hours.

(b) LABORATORY COURSE. A course arranged to demonstrate the chemical properties and pharmacological action of the more important drugs, and at the same time to familiarize the student with methods and processes used in experimental

pharmacology. Eight hours a week during the second trimester. 88 hours.

(a) or (b) may be taken alone by special students. Prerequisite, anatomy, biological chemistry and physiology.

(Drs. Cori, Graham)

#### ELECTIVE COURSES

2. *Advanced Work.* This is arranged to suit individual needs. Opportunity is offered for the extensive study of any special group of drugs desired. In addition students may elect work in toxicology. Hours and details of the work to be arranged.

3. *Research.* The facilities of the laboratory are available to those who wish to carry on original investigation, on problems of their own or on those the department is prepared to suggest.

4. *Journal Club.* Conducted jointly by the Departments of Physiology, Biological Chemistry and Pharmacology. A discussion of papers appearing in the current journals. Open to students who have credit in physiology or biological chemistry. Once a week throughout the year.

#### THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE

(The Department of Medicine includes Internal Medicine and Dermatology.)

ACTING BUSCH PROFESSOR ALEXANDER.

PROFESSOR EMERITUS ALBERT E. TAUSSIG.

ASSOCIATE PROFESSORS ELMER, OLMSTED, LUTEN, LARIMORE.

ASSISTANT PROFESSORS EWERHARDT, BULGER, LAWRENCE, THOMPSON, KOUNTZ, JENSEN, MACBRYDE, FINDLEY,<sup>1</sup> CARL MOORE, KETTELKAMP, MYERS.

INSTRUCTORS BAUMGARTEN, JEROME E. COOK, SALE, LOUIS H. HEMPELMANN, FISCHER, GORHAM, EYERMANN, STRAUSS, GRANT, CADY, ALFRED GOLDMAN, LIGGETT, DUDEN, BREDECK, DAY, RUSK, STROUD, AITKEN, JEAN, BROMBERG, GOTTLIEB, BARRETT TAUSSIG, KENAMORE, SEIBEL, HAGEMAN, MASSIE, EDWARDS, KAHN, JOHN R. SMITH, MURPHY, KEITH WILSON, HOLDEN, SEDDON, KOENIG, ELLIOTT.

ASSISTANTS ABEL, BECKE, GLASSBERG, MEHRLEN, MILTON SMITH, LEE B. HARRISON, CANNADY, SKILLING, CECIL M. CHARLES, MANSBACHER, BEAM, SCHEFF, HORNER, BIERBAUM, AGRESS, ARROWSMITH, KELLEY, BEN CHARLES, DRAKE, BENNETT,<sup>2</sup> HARFORD, BLANEY, DOUBLY, MALCOLM COOK, MINNICH, REINHARD, ROBERTS, WEDIG, STANLEY F. HAMPTON, FLEISHMAN, B. WHITE, FREEDMAN, KIRCHER, L. C. MILLER, POLLOCK, ROSS, WADE, WRIGHT, KIRSTEIN, HENRY ALLEN, KARL.

Instruction in medicine commences with the second trimester of the second year and continues throughout the third

<sup>1</sup> Resigned December 31, 1941.

<sup>2</sup> Resigned September 30, 1941.

and fourth years of the curriculum. The teaching of the second year has two main objectives—first, the correlation of the basic sciences with the clinical aspects of disease, and secondly, training in the technical methods of physical diagnosis and clinical microscopy. By the beginning of the third year the student is prepared for supervised clinical study of individual patients in the wards. Simultaneously he receives formal instruction in the natural history of disease and in medical therapeutics. In the final year each student acts for one month as clinical clerk in the medical clinics, and for one month in the wards of Barnes Hospital.

### SECOND YEAR

#### 1. ELEMENTARY MEDICINE.

(a) Introductory Clinic. Observation and interpretation of the symptoms and signs of disease, with special reference to pathological anatomy and physiology. Approximately one-sixth of the course is devoted to the discussion of psychobiology. Two hours each week during the second and third trimesters. 44 hours.

(Drs. MacBryde, Myers, Rioch and Staff)

(b) Physical Diagnosis. Lectures, demonstrations and practical exercises in the technique of physical diagnosis. Four hours each week during the second trimester. Three hours each week during the third trimester. 77 hours.

(Drs. Myers, Beam, Cannady, Harrison, Arrowsmith, Freedman, Karl, Drake, Edwards, Reinhard, Skilling and Assistants)

(c) Clinical Chemistry and Microscopy. Lectures and laboratory course in methods of microscopic and chemical diagnosis. Eight hours each week during the third trimester. 88 hours.

(Drs. Carl Moore, Allen, Holden, Agress, Miss Bierbaum)

### THIRD YEAR

2. (a) SUPERVISED STUDY OF PATIENTS IN WARDS OF HOMER PHILLIPS HOSPITAL. Two to three cases are assigned to a student each week for complete study and a written report. The work is supervised by preceptors, each of whom has responsibility for one-fourth of the group. Twenty hours per week for one trimester. 220 hours.

(Drs. Gottlieb, Barrett Taussig, Holden, Seddon, John Smith, Reinhard)

(b) MEDICAL CLINICS. Selected cases which have been studied by clinical clerks are presented by students and discussed before the group at Homer G. Phillips Hospital. One hour four days per week for one trimester. 44 hours.

(Drs. Alexander, Myers, Massie, Agress, Bulger, Kirstein, Arrowsmith, Olmsted, Edwards, S. F. Hampton, Bromberg, John Smith, Findley, Hageman, Kenamore, Jensen)

3. MEDICINE. Lectures and demonstrations intended to cover the more immediate important subjects in clinical medicine. Included in this course are lectures and discussions of dietetics and of special problems in therapeutics. Two hours each week during the first and second trimesters. Three hours each week during the third trimester. 77 hours.

(Drs. Alexander, Elliott, Myers, Olmsted, Carl Moore, Hageman, Thompson, Harford, Tsuchiya, Bromberg, Luten, Strauss, Massie, John Smith, Jensen, Kountz, Goldman, Grant, Wilson, Agress, Kenamore, Eyer-  
mann, Stroud, Hansel, MacBryde,  
S. F. Hampton, W. Scott)

4. MEDICAL CLINICS. 33 hours. (See under Fourth Year—Medicine 6).

#### FOURTH YEAR

##### 5. MEDICINE.

(a) Clinical clerkship in Barnes Hospital. With the exception of the 8:00 o'clock clinics, the entire day is spent in the wards of Barnes Hospital. Both medical and neurological cases are assigned for complete study and report. Ward rounds and frequent informal conferences are held. Special ward rounds are held at Isolation Hospital each week. 152 hours.

(Drs. Alexander, Olmsted, and Staff)

(b) Clinical clerkship in Washington University Clinics. Students act as physicians under the supervision of consultants in the following clinics:

##### Morning

Medicine—Dr. Elliott and Staff

Cardiology—Dr. Strauss and Staff

Chest—Dr. Myers and Staff

##### Afternoon

Medicine—Dr. Edwards and Staff

Gastroenterology—Dr. Kenamore and Staff

Dermatology—Dr. Weiss and Staff



6. **MEDICAL CLINICS.** Cases which have been investigated by students working in the wards are presented before the Third and Fourth Year classes. One hour each week throughout the year. 33 hours.

(Drs. Alexander, Albert Taussig, Carl Moore, Myers,  
MacBryde, Sale)

7. **THERAPEUTICS.** Conferences are held on selected topics on medical therapeutics. Each subject is presented by two or more instructors. Time is allowed for general discussion. Speakers are chosen from preclinical as well as from clinical departments. One hour each week throughout the year. 33 hours.

(Drs. Alexander, Massie, Elman, Carl Moore, Hageman,  
Julianelle, J. V. Cooke, Thompson, Harford, Blattner,  
Bromberg, Goldman, Myers, Luten, John Smith,  
Wilson, Larimore, MacBryde)

#### ELECTIVE COURSES

8. *Koch Hospital.* Four students—All day for four weeks. Individual training in history, physical examination, and special examinations as they relate to the study of thoracic disease. Assignment of selected cases. Discussion and demonstration of treatment procedures. Attendance at staff conferences and Clinical Pathological conference at Koch Hospital.

(Drs. Kettelkamp, Murphy)

9. *City Hospital No. 1.* Six students—All day for four weeks. An additional clinical clerkship especially valuable because of the incidence of emergency cases and of infectious disease. Assignment of selected cases. Rounds and attendance at Clinical Pathological conference at City Hospital.

(Drs. Findley, Jensen, Edwards)

10. *Metabolism Ward.* Two students—All day for four or eight weeks. Rounds and assignment of selected cases in metabolism ward. Attendance at Diabetic and Endocrine Clinics in Washington University Clinics and at City Hospital. Special training in basal metabolism and in tests applicable to the study of metabolic and endocrine diseases.

(Dr. MacBryde)

11. *Allergy.* Two students—All day for one month. Attendance at Allergy Clinics. Special training in preparation of allergens, skin testing, and other tests relevant to the study of allergic states.

(Drs. Alexander, Eyermann, S. F. Hampton)

12. *Hematology*. Two students—Mornings only for four weeks. Special training in supravital staining and other staining methods, platelet counts, reticulocyte counts, study of coagulation mechanism including prothrombin time, and other tests relative to the study of hematologic conditions.

(Drs. C. Moore, Arrowsmith, Miss Bierbaum)

13. *Wassermann Laboratory*. Two students—Mornings only for four weeks. Experience and training in immunological and bacteriological technic.

(Dr. Hageman, Miss Mehrten, Mrs. Doubly)

14. *Blood Chemistry*. Two students—Mornings only for four weeks. Experience and training in the conduct of special chemical procedures most used in the study of clinical medicine.

(Dr. Bulger)

15. *Gastrointestinal Diseases*. Eleven lectures with x-ray and clinical demonstrations. Time and dates to be arranged.

(Dr. Larimore)

16. *Venereal Clinic*. Five students—Three evenings a week for four or eight weeks.

(Dr. Koenig)

### DERMATOLOGY

PROFESSOR EMERITUS MARTIN F. ENGMAN.

ASSISTANT PROFESSOR WEISS.

RESEARCH ASSOCIATE MACCARDLE.

INSTRUCTORS A. H. CONRAD, COLEMAN, LANE, MARTIN F. ENGMAN, JR.

ASSISTANTS ESKELES, BAGBY, MARCUS, A. H. CONRAD, JR.

MYCOLOGIST MORRIS MOORE.

### FOURTH YEAR

1. DERMATOLOGY. A lecture course on diseases of the skin and on syphilis. This course is a general survey of the etiology, symptomatology, pathology, and treatment of skin diseases and the history and pathology of syphilis. 12 hours.

(Dr. Weiss and Staff)

### ELECTIVE COURSES

2. Clinical examination of numerous dermatological cases with opportunity for instruction in their diagnosis, pathology and treatment. Examination of biopsy specimens. Training in the use of various physical agents such as electro-coagulation, X-ray and radium in the treatment of malignant and non-malignant skin affections.

Mondays, Tuesdays, Wednesdays and Fridays—1:30 to 4:30 p. m.—The Barnard Free Skin and Cancer Hospital.

Thursdays—2:00 to 4:00 p. m.—Skin Clinic, Washington University Clinics.

(Dr. Weiss and Staff)

## NEUROPSYCHIATRY

PROFESSORS RIOCH, JACOBSEN, SCHWAB.

ASSISTANT PROFESSORS A. B. JONES, CARR, SATTERFIELD, TUREEN, WARSON.

INSTRUCTORS KUBITSCHKEK, BELL, GITT, MAUGHS, FINGERT, LEVY.

LECTURER EMERY.

ASSISTANTS KENDALL, BUSCH, MIKSICEK, P. HARTMAN, GAROL.

RESEARCH FELLOWS BUCHMUELLER, HOFFSTATTER.

Instruction in the Department of Neuropsychiatry is given in all four years of the medical course. In the first semester a course is given on the structure of the personality, with particular emphasis on the development of attitudes. Other lectures and demonstrations in the first and second years are designed to correlate clinical neurology with neuroanatomy, laying special emphasis upon the integration of organic functions through neural mechanisms and the encephalization and corticalization of personality functions.

In the second year, correlated with medical and surgical instruction in physical examination, elementary instruction is given in the approach to the patient as a person, with a view to understanding his problems in terms of their meaning for him as a person.

Members of the Department of Neuropsychiatry participate in the instruction in Neuropathology in the Department of Pathology during the third trimester.

Clinical clerkships in the University Clinics in the third year bring the individual student directly into relationship with patients showing disorders of personality function, and with the family and community situations of such patients. The student also has the opportunity to work with patients showing more severe personality disorders at the Bliss Institute. Frequent conferences both with staff members and the psychiatric social workers are held for purposes of discussion of procedure and of working formulations.

Instruction in neurology in the third year is given in lectures, demonstrations and clinical clerkships. Emphasis is laid on the diagnosis and treatment of the common neurological syndromes, and on giving the students a basic training in the technique and interpretation of the neurological examination.

In the fourth year weekly clinical demonstrations are held for the whole class at which illustrative cases are presented and diagnosis and therapy are discussed.

## FIRST YEAR

## 1. NEUROPSYCHIATRY.

INTRODUCTION TO MEDICAL PSYCHOLOGY. Lectures, essays and personal discussions concerning the development of human attitudes and emotional reactions affecting the study and practice of medicine. One hour a week for 12 weeks. 12 hours.

INTEGRATIVE NEUROLOGY. A series of lectures, demonstrations and clinics concerning integrated functions of the organisms, given as part of Anatomy 3. The purpose of this series is to correlate laboratory investigations of the nervous system with clinical problems. Approximately 8 hours.

(Drs. Jacobsen, Rioch and Assistants)

## SECOND YEAR

## 2. PSYCHIATRY.

INTRODUCTORY COURSE ON THE PATIENT-PHYSICIAN RELATIONSHIP. (Part of Medicine 1 (a).) Discussions with clinical demonstrations of the relationship between the patient and the physician and the other interpersonal relationships of the patient which have a bearing on his problems. Interview techniques and systematic formulation of the data are considered. 11 hours. (Drs. Rioch, Jacobsen, Warson and Associates)

## 2. NEUROLOGY.

NEUROLOGICAL EXAMINATION IN PHYSICAL DIAGNOSIS. (Part of Medicine 1 (b).) Lectures, demonstrations and exercises in the neurological examination of the patient. 6 hours.

(Drs. Jones and Rioch in conjunction with  
Dr. Alexander and Assistants)

## THIRD YEAR

## 3. PSYCHIATRY.

(a) PSYCHOPATHOLOGY; AN INTRODUCTORY COURSE TO SOME OF THE THEORETICAL CONCEPTS OF THE DETERMINANTS OF HUMAN BEHAVIOR. Lectures with illustrative case studies concerning the psychodynamic principles involved in personality disorders and their treatment. In the first trimester emphasis is laid on current theories of the psychodynamics of personality disorders; in the third trimester the application of these principles to the therapy situation is elaborated and illustrated. This course in combination with clinical clerkships is aimed at assisting the orientation of the general medical practitioner to personality problems of patients. One hour a week for the first and third trimesters. 22 hours. (Dr. Warson)

(b) CLINICAL CLERKSHIP. One-ninth of the third year class serve a clinical clerkship of three to four weeks in the University Clinics. The students are assigned patients and participate in the work of the clinics under close personal supervision of the staff members. Interviews with institutionalized patients and conferences on selected cases are provided at the Bliss Institute. 49 hours.

(Drs. Warson, Satterfield, Tureen, Maughs, Fingert,  
Bell, Miksicek)

### 3. NEUROLOGY.

(a) CLINICAL NEUROLOGY. Lectures with demonstrations on diseases affecting the nervous system. The semeiology of affections of the nervous system is taken up in the first third of the course, after which diseases of the nervous system are considered with emphasis on the biology of the disease and the rationale of therapy. One hour a week, first and second trimesters. 22 hours.

(Drs. Rioch, Jacobsen, Jones, Levy)

(b) CLINICAL CLERKSHIPS. Clinical clerkships on wards of the St. Louis City Hospital. Students participate under supervision in the examination and treatment of patients. Emphasis is laid on the technique and interpretation of history-taking and the neurological physical examination. 30 hours.

(Drs. Levy, Rioch)

## FOURTH YEAR

### 4. PSYCHIATRY.

PSYCHIATRIC CLINIC. An exercise every other week throughout the year, alternating with the Neurological Clinic (Neurology 4 (a)). Illustrative cases at the City Sanitarium, Bliss Institute and the Barnes Hospital wards are presented and discussed. One hour every two weeks throughout the year. 17 hours.

(Drs. Jones, Jacobsen, Schwab, Maughs)

### 4. NEUROLOGY.

(a) NEUROLOGICAL CLINIC. An exercise every other week throughout the year, alternating with the Psychiatric Clinic (Psychiatry 4). The more important neurological diseases and syndromes are presented and discussed with illustrative cases from the Barnes Hospital and St. Louis City Hospital wards. One hour every two weeks throughout the year. 16 hours.

(Drs. Rioch, Schwab, Jones, Levy)



(b) **WARD ROUNDS.** Twice a week ward rounds are conducted on neuropsychiatric cases in the Barnes Hospital wards with the medical group. One hour a week for one quarter. 8 hours.  
(Drs. Schwab, Rioch, Warson)

#### ELECTIVE COURSES

5. *Neurological Clinical Clerkship at the City Hospitals.* Four students mornings or afternoons at City Hospital #1, for four or eight weeks. Students act as externes. Instruction is given in the technique and interpretation of the more specialized procedures of neurological examination and treatment, including air- and electro-encephalography, lumbar puncture, perimetry, etc.

(Drs. Rioch, Jones, Levy, Gitt, Garol)

6. *Psychiatric Clinical Clerkship at the Bliss Institute and City Sanitarium.* Two students, morning or afternoon for four or eight weeks. Types of patients may be selected to meet special interests of individual student.

(Drs. Rioch, Warson, Tureen, Gitt, Miksicek, Busch)

7. *Clinical Clerkship at the University Clinics.* Two students, mornings, for four or eight weeks. The students participate in the work of the neuropsychiatric clinic under the supervision of the staff members.

(Drs. Schwab, Warson, Maughs, Fingert, Tureen)

8. *Research in Neurology, Neuropathology, Psychology and Psychiatry.* Facilities are available for qualified students to undertake original research in the laboratories of the department or in the clinics or wards.

9. *Staff conferences.* Students are invited to attend certain of the psychiatric and neurological staff conferences. These are as follows: a psychiatric staff conference held weekly at the Bliss Institute; neurological staff conferences held weekly, alternating on successive weeks, at the St. Louis City Hospital and the Homer Phillips Hospital; conferences of the neuropsychiatric and neurosurgical staffs held weekly at Barnes Hospital.

## THE MARY CULVER DEPARTMENT OF SURGERY

(The Department of Surgery includes General Surgery, Orthopedic Surgery, Neurological Surgery, and Genitourinary Surgery.)

BIXBY PROFESSOR EVARTS A. GRAHAM.

EMERITUS PROFESSORS VILRAY P. BLAIR, WILLARD BARTLETT.

PROFESSORS SACHS, SEELIG, CLOPTON, KEY, DALTON K. ROSE.

ASSOCIATE PROFESSORS COPHER, ELMAN, HEINBECKER, J. BARRETT BROWN, WOMACK, FURLOW.

ASSISTANT PROFESSORS FISHER, STONE, DUFF S. ALLEN, CREGO, THEODORE P. BROOKES, DEAKIN, RAINEY,<sup>1</sup> JOSTES.

INSTRUCTORS SANFORD, WILHELMI, HENRY S. BROOKES, JR., PROBSTEIN, WALTON, BLADES, SCHWARTZ, MCCARROLL, ROBERT BARTLETT, CORDONNIER, BRICKER,<sup>2</sup> JOHN PATTON, KENNETH O. WILSON, HAFNER,<sup>2</sup> JORSTAD, HARBISON.

ASSISTANTS KEYES, BYARS, THIEME, HEIDEMAN, LEYDIG, LISCHER, O. P. HAMPTON, ROCHE, WATTENBERG, ALTHAUS, CUTLER, FELLER, KOPP, PRUETT, McDOWELL, HEIFETZ, MARTIN, COOPER, HALL, LARGE, WILLIAM F. ROSE, BARNHART, BROCK, FISH, GRUENFELD, W. K. WILSON, CLARKE, CRIDER, ECKERT, MODLIN, ROULHAC,<sup>3</sup> VILRAY P. BLAIR, JR., KELLY.

FELLOWS BURFORD, SMOLIK, BRUNEAU, AGUILAR, SHEFTS, MACKLER, PIANETTO.

RESEARCH FELLOW LIEBEN.

The instruction in the Department of Surgery begins with an introduction to surgical principles at the end of the second year. These surgical principles for the most part are derived from fundamental concepts in the preclinical sciences which have been occupying the student since the beginning of his freshman year. Although in this course a few patients are used for the demonstration of lesions which illustrate the principles of surgery, it is really in the junior year that the first actual contact with patients occurs. Each student then is assigned to a clinical clerkship in the hospital wards and in that way is given an opportunity to study the more common and important kinds of surgical diseases. In the junior year five and one-half weeks (one-half trimester) are spent in the clinical clerkship in the Barnes and St. Louis Children's Hospitals which immediately adjoin the Medical School, and the same length of time at City Hospital No. 1 which is about two and one-half miles away. This division of time has been arranged in order that advantage may be taken of the large amount of traumatic material at the City Hospital. The clinical clerks become familiar with other cases than their own through the daily ward conferences. They are offered the opportunity of seeing all operations and they are encouraged to participate as

<sup>1</sup> Deceased July 28, 1941.

<sup>2</sup> On leave of absence.

<sup>3</sup> Resigned July 31, 1941.

assistants in practically all of the operations performed upon their patients to whom they have acted as clerks. Although each student will have for personal study a few cases representing the various specialties of surgery the principal instruction is concentrated upon general surgery, especially that sort of case which the general practitioner frequently encounters. Special instruction in history writing, in the examination of the patient and in various diagnostic and therapeutic techniques is given to small groups by the resident and assistant resident house officers. These small groups are in the nature of tutorial classes.

During the junior year also a systematic survey of clinical general surgery is given in a conference and recitation course in which the class is divided into two sections in order to provide a more personal contact between the instructor and the students. There is likewise a separate course devoted to a systematic review of fractures and traumatic surgery.

Surgical pathology, formerly given in the junior year, has been changed to a senior year course.

In the senior year the student works in the outpatient department. He also spends a part of his time at the Homer Phillips Hospital. In the ward work during this year particular attention is paid to the study of patients with acute abdominal disease, fractures and other kinds of traumatic surgery. Intensive instruction in malignant disease is given at the tumor clinic which the senior students attend two hours daily for four weeks.

#### SECOND YEAR

1. INTRODUCTION TO SURGERY. A laboratory, demonstration and lecture course in which are studied certain fundamental processes of physiology, chemistry and pathology as applied to surgery. The course includes the demonstration of patients illustrating various points under discussion. Four hours weekly during the third trimester. 44 hours.

(Dr. Heinbecker)

#### THIRD YEAR

2. SURGICAL RECITATIONS. A weekly discussion during the first and second trimesters on assigned surgical reading. The principles of surgery and many of the more common surgical conditions are considered. Standard textbooks and selected articles from the recent literature are freely consulted. The class is divided into two sections for this course. 22 hours.

(Drs. Elman, Heinbecker)

3. FRACTURES. Demonstrations, conferences and lectures on the more common fractures. This systematic presentation of the subject is in addition to the extensive clinical experience in fractures offered in the wards of the City Hospital. One hour weekly during the third trimester. 11 hours.

(Drs. Key, Copher)

4. SURGICAL CLINIC. A weekly clinic throughout three trimesters. See course 7. 33 hours.

(Dr. Graham)

5. SURGICAL CONFERENCE. The utilization of physical examination in the diagnosis and interpretation of some of the more common surgical diseases and their underlying nature, illustrated by patients, are discussed. A weekly exercise during three trimesters. 33 hours.

(Dr. Sachs)

6. SURGICAL WARDS. For one trimester the student serves as an assistant in the surgical wards. Half of the surgical group is at the St. Louis City Hospital for a period of five and one-half weeks while the other half is at the Barnes and St. Louis Children's Hospitals. The groups are then changed so that each student's ward service is for a period of eleven weeks. From 10 to 11 a. m. conferences on selected patients are held. General and special surgical cases are discussed by members of the staff. Following this conference the students spend the remainder of the day in the wards of the hospitals. The students take the case histories and make physical examinations and the usual laboratory examinations. They assist at some of the operations and do some of the surgical dressings. The students also attend autopsies performed on the cases studied by them and are required to be present at the weekly pathological conference at which these cases are discussed. The student is encouraged to consult the library frequently in the solution of problems concerning his patients. From 3 to 4 p. m. the resident and assistant residents meet the students in an informal conference at which time various questions that have arisen during the day are discussed and various aspects of the care of the patient considered. Particular effort is made to see that the student comes in contact with the more frequent and important surgical lesions and that the cases assigned him are sufficiently diversified to afford him an accurate perspective of surgery. 260 hours.

(Various members of the staff)

## FOURTH YEAR

7. **SURGICAL CLINIC.** A weekly exercise throughout four quarters. Patients presenting the more usual general surgical conditions are demonstrated and their diagnostic and therapeutic problems are discussed. Students of the third year also attend this clinic. 32 hours. (Dr. Graham)

8. **ORTHOPEDICS.** Groups of six students are assigned to work in the Orthopedic Outclinic four mornings a week for two weeks. In addition, the entire group of twelve students attends a conference in orthopedic surgery at the Shriners' Hospital for Crippled Children two hours a week for four weeks. 20 hours. (Drs. Key, Crego and Staff)

9. **GENITOURINARY OUTCLINIC.** Groups of six students attend the Genitourinary Outclinic two hours a day, four days a week, for two weeks. 16 hours. (Dr. Rose and Staff)

10. **PROCTOLOGY.** Demonstration of various lesions about the rectum and anus are given in the Outpatient Department to groups of six students. 4 hours.

11. **NEUROSURGERY OUTCLINIC.** Groups of six students attend the Neurosurgical Outclinic where patients with ambulatory neurosurgery conditions are demonstrated. 4 hours. (Dr. Furlow)

12. **TUMOR CLINIC.** Groups of twelve students attend the Tumor Clinic daily for four weeks from 11 until 1 o'clock. The clinic is so arranged that the students see patients with the more common types of cancer. Methods of diagnosis, the fundamentals underlying treatment and the pathology of the condition are discussed. Particular consideration is given to various types of radiation therapy. 48 hours.

13. **WARD WORK.** Twelve students are assigned to the Homer Phillips Hospital (the city hospital for negroes) for four weeks. From 9:30 to 10:30 a. m. clinical conferences are held at which time patients are demonstrated to the group by the student to whom the patient was assigned with discussion by the attending surgeon. Students are assigned patients of whom they take histories and make physical examinations as well as the usual laboratory examinations. The students are permitted to assist at some of the operations and do some of the surgical dressings. Particular attention is paid to acute abdominal diseases, traumatic surgery and fractures. 80 hours.

(Drs. Elman, Probst, Robert Bartlett, Gruenfeld)



14. *SURGICAL PATHOLOGY.* Weekly exercises of two hours for three trimesters, at which time the early pathological changes are considered from the standpoint of their clinical manifestations. Pathological material from the museum and operating room is studied both in the gross and microscopically. 66 hours.  
(Drs. Womack, Harbison)

#### ELECTIVE COURSES

15. *Neurosurgery.* Eight lectures in the second quarter of the fourth year. The lectures comprise a review of the anatomy and physiology of the nervous system as applied to neurosurgery and a discussion of the principal conditions encountered in this field.  
(Drs. Sachs, Furlow and Staff)

16. *Postoperative Care.* Eight lectures and demonstrations in the fourth quarter of the fourth year. Both the normal and complicated postoperative developments are discussed.  
(Dr. Allen)

17. *Surgical Pathology.* Two students full time for eight weeks, all quarters. The elective will consist of a correlation of the clinical records of hospital patients with the pathological findings. Time will be devoted to current surgical journals as related to surgical pathology as well as a brief review of pathological techniques.  
(Dr. Womack)

18. *Washington University Clinics.* General surgery, eight weeks for four students, mornings or afternoons. The students will serve as clerks to outpatients the time being spent in the study and care of the patients with special attention to minor surgical procedures.

19. *Research in Surgery.* Eight weeks full time. This elective is for those students who have been carrying on surgical research in their spare time the previous year and who wish to devote their entire time toward the completion of their problem.  
(Dr. Graham)

20. *State Cancer Hospital.* Three students to serve as clinical clerks at the State Cancer Hospital, Columbia, Missouri, full time, eight weeks. The duties assigned the student will be the routine duties required of any clinical clerk consisting of both in and outpatient work, particularly related to malignant disease. Application must be made directly to the State Cancer Commission.  
(Dr. Bricker)

21. *Anesthesia*. One or two students. Eight weeks, full time. Since the surgical operative schedules begin early each morning the hour to report will be 7 o'clock. This will enable the student to inspect and test mechanical equipment prior to its use. The student will be assigned to certain nights on call duty with the supervisor to take emergency cases which arise. The course embraces a special training in the practical administration of anesthetics by approved modern techniques, this instruction taking place daily, except Sundays, during the weekly schedules in which the student participates in the operating room. The theoretical aspects are covered by specific periods of class room instruction followed by examination at stated intervals. The administration of ether, nitrous oxide-oxygen, ethylene, cyclopropane and basal anesthetics is taught and practiced. (Miss Lamb)

22. *Urology Clerkship in Barnes Hospital*. One student, mornings for eight weeks. (Dr. Rose)

## RADIOLOGY

PROFESSOR SHERWOOD MOORE.  
CONSULTING PHYSICIST HUGHES.  
ASSOCIATE PROFESSOR LARIMORE.  
PHYSICIST THORNTON.  
ASSISTANT PROFESSOR WENDELL SCOTT.  
RESEARCH ASSOCIATE KALCKAR.  
INSTRUCTORS ZINK, ARNESON.  
ASSISTANT PHYSICIST LANGSDORF.  
ASSISTANTS THOMAS RUSSELL,<sup>1</sup> LIONBERGER.

Instruction in the applications of radiology in the diagnosis and treatment of disease is given very largely in collaboration with the several clinical departments.

## FOURTH YEAR

TUMOR CLINIC. (See Surgery 12 for description). Two hours a day for four weeks. 48 hours.

DIAGNOSTIC RADIOLOGY. Eight hours a week for four weeks. 32 hours.

## ELECTIVE COURSE

*Clerkship in Radiology*. Not to exceed two students at one time may act as externes in the Department of Radiology. They will participate in all activities. Full time for four or eight weeks. All quarters.

<sup>1</sup> Resigned September 30, 1941.

## OTOLARYNGOLOGY

PROFESSORS WALSH, PROETZ, HARRY LYMAN.  
PROFESSOR EMERITUS DEAN.  
ASSOCIATE PROFESSOR HANSEL.  
ASSISTANT PROFESSORS ARBUCKLE, ALDEN, KELLEY, HOURN, MCMAHON,  
COSTEN, WOLFF, CONE, GLICK.  
INSTRUCTORS VOTAW, BOEMER, G. HARDY, L. W. DEAN, JR., SMIT,  
SENTURIA.  
ASSISTANTS HANSON, GAGE, POTTER, SCHERRER, STUTZMAN, WILLIAM  
T. K. BRYAN, MOUNTJOY, E. H. LYMAN.

## SECOND YEAR

OTOLARYNGOLOGIC AND PHYSICAL DIAGNOSIS. The class is divided into small groups with individual instructors for a total of six hours for instruction in the methods of Otolaryngological diagnosis and the use of instruments peculiar to this field.

(Drs. Walsh, Dean, Jr., Votaw, Hardy, Smit, Mountjoy)

## THIRD YEAR

1. OTOTOLOGY, RHINOLOGY AND LARYNGOLOGY. Eleven lecture hours given during the third trimester.

(Drs. Walsh, Proetz, Lyman)

## FOURTH YEAR

2. OTOLARYNGOLOGY. Clinical instruction is given to sections of six for twelve hours a week for two weeks. 24 hours.

(Drs. Walsh, Lyman, Gage, Hardy, Smit,  
E. H. Lyman, Boemer)

## ELECTIVE COURSES

3. *Clerkship in Otolaryngology*. Two students may serve as externes in the clinics for four or eight weeks. Permission of the Head of the Department is necessary before registration for this elective. Full time. (Dr. Walsh and Staff)

4. *Otolaryngologic Pathology*. One student may serve as a volunteer in the laboratory. Eight weeks. Full time.

(Dr. Wolff)

## OPHTHALMOLOGY

PROFESSORS LAWRENCE T. POST, SHAHAN, WIENER.

ASSOCIATE PROFESSORS WILLIAM F. HARDY, JULIANELLE, WOODRUFF, M. HAYWARD POST.

ASSISTANT PROFESSORS JACOBS, SCHWARTZ, B. Y. ALVIS, JAMES.

INSTRUCTORS BEISBARTH, HILDRETH, LANGE, CRAWFORD, SANDERS, CALHOUN, MEINBERG.

LECTURER MASON.

ASSISTANTS E. B. ALVIS, ROSENBAUM,<sup>1</sup> JAMES H. BRYAN, HANSER,<sup>2</sup> G. HARRISON, SCOBEE, WESSON.

## SECOND YEAR

OPHTHALMOSCOPY. Lectures and demonstrations are given as a part of the course in Physical Diagnosis. 6 hours. (See Medicine 1b).

(Drs. Lawrence Post, M. H. Post, Beisbarth)

## THIRD YEAR

1. OPTHALMOLOGY. One lecture a week is given in the third trimester. 11 hours. (Dr. Wiener)

## FOURTH YEAR

2. CLINICAL OPTHALMOLOGY. Instruction in diagnosis and treatment of eye diseases is given to small sections of the class. Eleven hours a week for two weeks. 22 hours.

(Drs. Lawrence Post, M. H. Post, Schwartz, B. Y. Alvis, Beisbarth, Hildreth, Calhoun, E. B. Alvis)

## OBSTETRICS AND GYNECOLOGY

PROFESSORS WILLARD M. ALLEN, OTTO H. SCHWARZ, FREDERICK J. TAUSSIG, ROYSTON, T. KENNETH BROWN.

EMERITUS PROFESSORS H. CROSSEN, EHRENFEST.

ASSISTANT PROFESSORS McNALLEY, O'KEEFE, PADDOCK, KREBS, ROBERT J. CROSSEN, HOBBS, WEGNER.

INSTRUCTORS SCHLOSSSTEIN, DRABKIN, LIESE, DUDLEY R. SMITH, SOULE, ARNESON, ROBLEE, MORRIN.

ASSISTANTS CANEPA, MYRON W. DAVIS, ARZT, SCRIVNER, O'NEILL, STEWART, KLEINE,<sup>3</sup> PATTON, WULFF, MAX, WASSERMAN, GIBSON, BORTNICK, HUTTO, NOLAN, ROTHMAN, HUBERT ALLEN, GOETSCH, KEYS, MILLS,<sup>4</sup> WOOLF.

RESEARCH ASSISTANTS VIERGIVER, HAYWARD.

Students are given practical instruction in obstetrics and gynecology in the St. Louis Maternity Hospital, the Barnes Hospital, the University Clinics, the Homer G. Phillips Hospital and the St. Louis City Hospital. The St. Louis Maternity Hospital provides approximately 900 confinements, the St.

<sup>1</sup> On leave of absence until May 15, 1942 for military duty.

<sup>2</sup> On leave of absence until January 9, 1942 for military duty.

<sup>3</sup> Died September 21, 1941.

<sup>4</sup> Resigned August 31, 1941.

Louis City Hospital, 600, the Homer G. Phillips Hospital, 700, and the home delivery service of the University Clinics, 175, annually. On the gynecological divisions there are approximately 400 admissions annually in the Barnes Hospital, 500 in the St. Louis City Hospital and 450 in the Homer G. Phillips Hospital which are available for teaching purposes. Instruction in the care of ambulatory patients is carried out in the University Clinics where about 1,000 new patients are seen and 9,000 follow up visits are made annually.

#### THIRD YEAR

1. LECTURES IN OBSTETRICS AND GYNECOLOGY. Entire class once weekly throughout the year. 33 hours.

(Drs. Allen, Schwarz, Brown, Wegner, Hobbs)

2. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Two hours a week (in sections of one-third of the class). 22 hours.

(Dr. Hobbs and Staff)

3. CLINICAL CLERKSHIPS. Students serve on the wards of the St. Louis Maternity Hospital, Barnes Hospital and the St. Louis City Hospital. A group, composed of two-ninths of the class, spends two-ninths of the year in the Department. One-half of the group works at the St. Louis Maternity and Barnes Hospitals, and the other half at the St. Louis City Hospital, the subgroups changing in the middle of the period. The clerkship includes work on both gynecological and obstetrical wards. The clerks become an integral part of the organization and assume specific duties and responsibilities. They assist in the delivery rooms and small groups attend the University Clinics for special instruction in pelvic examination, abdominal palpation and pelvic measurement. Rounds are conducted at 10:10 a. m., four times weekly for the group at the St. Louis Maternity and Barnes Hospitals and at 10:30 a. m., four times weekly for the group at the St. Louis City Hospital. 154 hours.

(Dr. Allen and Staff)

#### FOURTH YEAR

4. CLINICS AND LECTURES. Entire class once weekly throughout the year. 33 hours.

(Dr. Allen and Staff)

5. CLINICAL CLERKSHIPS. One-sixteenth of the class serves as clinical clerks in the University Clinics for a period of two weeks. During this period they spend the day from 9:00 to 12:00 and 1:30 to 4:00. New patients are assigned and after complete history and physical examination has been made each



case is reviewed with the student by a member of the staff. Old patients are also seen frequently and ample opportunity is provided for examination of prenatal patients. Students also attend special clinics which are held concurrently with the regular clinic. 66 hours.

6. **OBSTETRICAL SERVICE.** A second group of one-sixteenth of the class spends two weeks on obstetrical call. During this period they reside in the hospital, some at the St. Louis Maternity Hospital and others at the St. Louis City Hospital, and attend under supervision a number of women during labor. In some instances they will attend labor conducted in the home.

7. **TUMOR CLINIC.** Instruction in the diagnosis and treatment of neoplastic disease is given two hours once weekly in the tumor clinic for a period of four weeks. This is conducted jointly with the Department of Radiology and the use of radium and deep X-ray therapy in these conditions is demonstrated. Students have the opportunity of seeing several patients, before, during and after treatment. This is given to the group in surgery. 8 hours.

#### ELECTIVE COURSES

8. *Gynecological Pathology.* Two students may serve as assistants in the laboratory of the St. Louis Maternity Hospital and participate in the routine. Four weeks. Full time. All quarters.

9. *University Clinics.* Three students as clinical clerks, all day for four or eight weeks.

#### THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS

PROFESSORS HARTMANN, COOKE, VEEDER.

ASSOCIATE PROFESSORS THEODORE C. HEMPELMANN, McCULLOCH.

INSTRUCTORS BLEYER, PARK J. WHITE, ZENTAY, KUBITSCHKE, RUPE, PERLEY, LAWRENCE GOLDMAN, ROHLFING, DEUTCH, F. A. JACOBS, STANLEY HARRISON, JAUDON, LONDE, BLATTNER, BARNETT, POWERS.

ASSISTANTS LONSWAY, BAUER, AFF, JONES, WACHTER, SCHWARTZMAN, ROBINSON, KUTTNER.

RESEARCH FELLOWS GARDNER, PFEIFFENBERGER.

RESEARCH ASSISTANTS HEYS, COOK.

DENTISTS MARTIN, HARRIS.

The instruction during the third year is designed to introduce the subject of pediatrics to the student by a systematic course of lectures emphasizing particularly normal growth and development, infant nutrition and feeding, acute infectious

diseases, and serious disturbances in water and mineral metabolism.

During the fourth year the emphasis is placed on the physical findings of disease and the student is brought into close contact with the patient in the wards of the St. Louis Children's Hospital, and by frequent clinical conferences with the teaching staff.

#### THIRD YEAR

1. PEDIATRICS. A systematic lecture course in general pediatrics, including occasional clinical demonstrations. Two hours a week for two trimesters and one hour a week for one trimester. 55 hours.  
(Drs. Hartmann, Cooke)

#### FOURTH YEAR

2. PEDIATRIC CLINIC. Weekly amphitheatre demonstrations and discussions of selected cases from the hospital, for the whole class. 32 hours.  
(Drs. Hartmann, Cooke, Veeder, McCulloch, Bleyer, Blattner, Jaudon, Barnett)

3. CLINICAL AND PATHOLOGICAL CONFERENCES. Weekly conferences, following clinical conferences. See also Pathology 4.

4. CLINICAL CLERKSHIPS. For essentially the entire day, beginning at 9:00 a. m., one-eighth of the class works as clinical clerks for four weeks. This work consists of the following: (1) daily early morning ward rounds with the house staff; (2) work on assigned cases, which may be interrupted for special demonstrations; (3) daily conferences with members of the teaching staff, during which the more important pediatric subjects are stressed; (4) general staff rounds twice weekly, during which students present selected cases which are then discussed by the staff; (5) work in the Outpatient Department of the University Clinics, including the general pediatric clinic and such special clinics as the well-baby clinic and the luetic clinic; (6) work in special metabolic clinic conducted in the hospital proper on Saturday morning; (7) ward rounds at the St. Louis City Isolation Hospital, the Homer G. Phillips Hospital, and the convalescent department of the St. Louis Children's Hospital, Ridge Farm; (8) special instruction in technic of nose, throat and ear examinations in infants and children by members of the Department of Otolaryngology; (9) special demonstrations in common nursing procedures, which include the preparation of artificial formulae.  
(Drs. Hartmann, Cooke, Blattner, Barnett, Jaudon, Zentay, Kubitschek, Harrison, Wachter and Staff)

## ELECTIVE COURSES

5. *Clerkship at Children's Hospital.* Two students, full time, four or eight weeks.

6. *Clerkship at City Hospital.* Two students, full time, four or eight weeks.

7. *Research.* Properly qualified students may engage in clinical or laboratory research under the direction of the pediatric staff. Hours by arrangement.

8. *Advanced Work.* The facilities of the department are available to qualified students who desire to do additional or advanced work in the St. Louis Children's Hospital, St. Louis Isolation Hospital, Child Guidance Clinic, the Pediatric Clinic or in the laboratories of the department. Hours to be arranged.

## MILITARY SCIENCE AND TACTICS

EARL H. PERRY, M.D., Lieutenant Colonel, M. C., U. S. A.

*Assistant Professor of Military Science and Tactics*

A Medical Unit of the Reserve Officers' Training Corps is maintained. An officer of the Medical Corps of the Regular Army is detailed to the School as instructor. Classes are a part of the regular schedule. The work is divided as follows:

- (1) Basic Course—first and second years.
- (2) Advanced Course—third and fourth years.
  - (a) Summer Training Camp—six weeks.

Enrollment in both the Basic and Advanced Courses is optional and does not obligate the student to any military duty except to complete the section of the course undertaken.

The Summer Camp is part of the Advanced Course. It may be attended after the second or the third year.

Satisfactory completion of the Basic Course is required for enrollment in the Advanced Course. Certain credits may be allowed for work done in R. O. T. C. Units elsewhere.

Students enrolled in the Advanced Course receive "Commutation of Subsistence," at the rate prescribed by law, throughout the full two year period except during the camp period when they are housed, clothed, fed and receive the pay of the lowest grade of the Army.

Upon completion of the course the student will be presented, at graduation, with his choice of a commission as a First Lieutenant, Medical Section, Officers' Reserve Corps, or with a certificate of eligibility for such commission.

## MISCELLANEOUS COURSES

**MEDICAL JURISPRUDENCE.** A course given in the fourth year embracing medical evidence and testimony; expert testimony; dying declarations; rights of medical witnesses; establishing identity from living and dead bodies; sudden death from natural causes and by violence; criminal acts determined by medical knowledge; the legal relation of physician to patients and the public; insanity, and malpractice. 11 hours.

(Mr. Crowdus)

## ELECTIVE COURSE

*Professional Conduct and Medical Economics.* An elective course in which the following subjects are discussed: the young physician and his problems; group medicine and specialization; ethical relations between physicians; organized medicine; birth control; quackery, fads, and cults; medical finance; industrial and contract practice; "systems" of practice in other countries; health insurance plans. 8 hours.

(Dr. Park J. White)

## POST-GRADUATE COURSES

Courses in the following subjects are offered to a limited number of qualified graduates in medicine:

## OBSTETRICS AND GYNECOLOGY

A four-weeks' course in obstetrics and diagnostic gynecology is offered once each year, beginning in May. The course is designed for those doing general practice, and its object is to provide a thorough grounding in the modern practice of obstetrics and gynecology. For those desiring to enter upon the practice of obstetrics and gynecology as a specialty, the course will furnish a sound basis for further work in this field.

## OPHTHALMOLOGY

An eight-months' course in ophthalmology is offered each year beginning in October. The purpose of the course is to provide a good foundation in ophthalmology on which the student can build further, preferably by ophthalmic internships or by study while engaging in practice. Approximately one-fifth of the time is spent in the study of the fundamental sciences as they pertain to ophthalmology.

## OTOLARYNGOLOGY

An eight-months' course in otolaryngology is offered each year beginning in September.

The purpose of the course is to prepare the student for a residency in otolaryngology or for work with a preceptor. The curriculum is not arranged with the thought of making him a finished otolaryngologist. It is prepared so as to build a firm foundation for his development as a clinician. The instruction is not confined to the basic sciences. Those subjects are included in the curriculum which will best prepare him for his work as an interne.

The theory and practice of otolaryngology are studied; operative surgery and bronchoscopy are taught in the dead house and on animals. Particular attention is given to the methods of examination of patients and to diagnosis. The problems of defects and the management of the deaf child are emphasized.

## ANATOMY

Dissection. A six-weeks' summer course in anatomy is offered for physicians desiring to review the subject. Any of the following parts may be elected for study: head and neck, thorax and upper limb, abdomen and pelvis, lower limb.

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Pamphlets giving further information about these courses may be obtained on application to the Registrar of the School.



# GENERAL SCHEDULES

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1942-43

Schedule of First Year. September 24 - December 22, inclusive

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Histology Lectures and Laboratory Anatomy 2					Dissection Anatomy 1
10 to 11						
11 to 12						
12 to 1			Anatomy Lecture Anatomy 1		Medical Psychology Neuropsychiatry 1	Anatomy Lecture Anatomy 1
2 to 3	Dissection Anatomy 1	Military Science and Tactics 1	Dissection Anatomy 1		Dissection Anatomy 1	
3 to 4						
4 to 5						
5 to 6			Special Lectures			

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
Schedule of First Year. January 4 - February 6, inclusive

1942-43

92

BULLETIN OF WASHINGTON UNIVERSITY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Neurology Lectures and Laboratory Anatomy 3					
10 to 11						
11 to 12						
12 to 1	Military Science and Tactics 1		Anatomy Lecture Anatomy 1		Medical Psychology Neuropsychiatry 1	Anatomy Lecture Anatomy 1
2 to 3	Dissection Anatomy 1		Dissection Anatomy 1		Dissection Anatomy 1	
3 to 4						
4 to 5						
5 to 6			Special Lectures			

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
Schedule of First Year. February 8 - June 4, inclusive

1942-43

THE SCHOOL OF MEDICINE

93

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Biological Chemistry Laboratory Chemistry 3	Biological Chem. Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3	Biological Chem. Lecture Chemistry 3 ( $\frac{1}{2}$ class)	Physiology Lecture Physiology 2a
10 to 11			Biological Chemistry Laboratory Chemistry 3	Anatomy Lecture Anatomy 1	Anatomy Lecture Anatomy 1	
11 to 12				Physiology Lecture Physiology 2a	Physiology Lecture Physiology 2a	
12 to 1	Physiology Lecture Physiology 2a	Biological Chemistry Laboratory Chemistry 3		Military Science and Tactics 1	Biological Chem. Lecture Chemistry 3 ( $\frac{1}{2}$ class)	
2 to 3	Dissection Anatomy 1	Chemistry 3	Dissection Anatomy 1		Dissection Anatomy 1	
3 to 4						
4 to 5						
5 to 6			Special Lectures			

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
1942-43  
Schedule of Second Year, First Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10		Physiology Conference Physiology 2b				Physiology Lecture Physiology 2a
10 to 11	Bacteriology Laboratory B. & I. 1		Bacteriology Laboratory B. & I. 1	Bacteriology Laboratory B. & I. 1	Bacteriology Laboratory B. & I. 1	
11 to 12						Physiology Laboratory Physiology 2b
12 to 1	Physiology Lecture Physiology 2a	Physiology Laboratory Physiology 2b	Bacteriology Lecture B. & I. 1	Bacteriology Lecture B. & I. 1	Physiology Lecture Physiology 2a	
2 to 3			Physiology Lecture Physiology 2a			
3 to 4			Bacteriology Recitation B. & I. 1		Physiology Laboratory Physiology 2b	
4 to 5			Military Science and Tactics 1			
5 to 6			Special Lectures			

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
1942-43  
Schedule of Second Year. Second Trimester.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pathology Pathology 1	Introductory Clinic Medicine 1a	Pathology Pathology 1	Pharmacology Lecture Pharmacology 1a	Pathology Pathology 1	Pharmacology Lecture Pharmacology 1a
10 to 11		Infection and Immunity Lecture B. & I. 2		Pharmacology Laboratory Pharmacology 1b		Physical Diagnosis Medicine 1b
11 to 12		Pharmacology Laboratory				
12 to 1		Pharmacology 1b				
2 to 3	Pharmacology Lecture Pharmacology 1a	Pharmacology Laboratory Pharmacology 1b	Infection and Immunity Laboratory B. & I. 2		Military Science and Tactics 1	
3 to 4	Physical Diagnosis Medicine 1b					
4 to 5						
5 to 6			Special Lectures			



WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
1942-43  
Schedule of Second Year. Third Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10		Pharmacology Lecture Pharmacology 1a		Pharmacology Lecture Pharmacology 1a		
10 to 11						
11 to 12	Pathology Pathology 1	Clinical Microscopy Medicine 1c	Pathology Pathology 1	Physical Diagnosis Medicine 1b	Pathology Pathology 1	Pathology Pathology 1
12 to 1						
2 to 3	Introductory Clinic Medicine 1a	Military Science and Tactics 1			Introductory Clinic Medicine 1a	
3 to 4	Clinical Microscopy Medicine 1c	Introduction to Surgery Surgery 1	Clinical Microscopy Medicine 1c		Introduction to Surgery Surgery 1	
4 to 5						
5 to 6			Special Lectures			

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
Schedule of Third Year. First Trimester

1942-43

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 to 9	Pediatrics Ped. 1	Surg. Clinic Surg. 4	Surgery Surg. 2	Obstetrics and Gynecology Ob. and Gyn. 1	Pediatrics Ped. 1	Med. Clinic Med. 4
9 to 10	Medicine Med. 3	Public Health	Medicine Med. 3	Neuropsychiatry Neurology 3a	Public Health	Surg. Clinic Surg. 5
10 to 11	Group A—Medicine 2 Group B—Surgery 6 Group C— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b	Group A—Medicine 2 Group B—Surgery 6 Group C— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b	Military Science and Tactics	Neuropsychiatry Psychiatry 3a (11 to 12:30)	Group A—Medicine 2 Group B—Surgery 6 Group C— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b	
11 to 12						
12 to 1						
2 to 3	Group A—Medicine 2 Group B—Surgery 6 Group C— Obstetrics and Gynecology 3 Psychiatry 3b; Neurology 3b	Group A—Medicine 2 Group B—Surgery 6 Group C— Obstetrics and Gynecology 3 Psychiatry 3b; Neurology 3b		Free	Group A— Medicine 2 Group B— Surgery 6 Group C— Ob. & Gyn. 3 Psychiatry 3b; Neurology 3b	
3 to 4						
4 to 5	C. P. C.* Conference Pathology 4	Special Lectures				
5 to 6						

\* Clerkships take precedence over clinical and pathological conferences.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
1942-43  
Schedule of Third Year. Second Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 to 9	Pediatrics Ped. 1	Surg. Clinic Surg. 4	Surgery Surg. 2	Obstetrics and Gynecology Ob. and Gyn. 1	Anatomy 4	Med. Clinic Med. 4
9 to 10	Medicine Med. 3	Public Health	Medicine Med. 3	Public Health	Neuropsychiatry Neurology 3a	Surg. Clinic Surg. 5
10 to 11	Group A— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group B—Medicine 2 Group C—Surgery 6	Group A— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group B—Medicine 2 Group C—Surgery 6	Medicine Med. 3	Anatomy 4	Group A— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group B—Medicine 2 Group C—Surgery 6	Group A— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group B—Medicine 2 Group C—Surgery 6
11 to 12				Military Science and Tactics		
12 to 1						
2 to 3	Group A— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group B—Medicine 2 Group C—Surgery 6	Group A— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group B—Medicine 2 Group C—Surgery 6		Free	Group A— Ob. and Gyn. 3 Neuropsychiatry Psychiatry 3b Neurology 3b Group B— Medicine 2 Group C— Surgery 6	
3 to 4						
4 to 5	C. P. C.* Conference Pathology 4					
5 to 6			Special Lectures			

\* Clerkships take precedence over clinical and pathological conferences.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
Schedule of Third Year. Third Trimester

1942-43

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 to 9	Pediatrics Ped. 1	Surg. Clinic Surg. 4	Surgery Surg. 3	Obstetrics and Gynecology Ob. and Gyn. 1	Medicine Med. 3	Med. Clinic Med. 4
9 to 10	Ophthalmology Ophthal. 1	Medicine Med. 3	Medicine Med. 3	Pediatrics Ped. 1	Otolaryngology Otolaryn. 1	Surg. Clinic Surg. 5
10 to 11	Group A—Surgery 6 Group B— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group C—Medicine 2	Group A—Surgery 6 Group B— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group C—Medicine 2	Surgery	Surgery	Group A— Surgery 6 Group B— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group C—Medicine 2	
11 to 12				Military Science and Tactics		
12 to 1				Neuropsychiatry Psychiatry 3a (12 to 1:30)		
2 to 3	Group A—Surgery 6 Group B— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group C—Medicine 2	Group A—Surgery 6 Group B— Obstetrics and Gynecology 3 Neuropsychiatry Psychiatry 3b; Neurology 3b Group C—Medicine 2		Free	Group A— Surgery 6 Group B— Ob. and Gyn. 3 Neuropsychiatry Psychiatry 3b Neurology 3b Group C— Medicine 2	
3 to 4						
4 to 5	C. P. C.* Conference Pathology 4	Special Lectures				
5 to 6						

\* Clerkships take precedence over clinical and pathological conferences.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
1942-43  
Fourth Year, Medical Quarter

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 to 9	Neur. & Psych. Clinic Neuropsych, 4a	Surgery Clinic Surgery 7	Pediatrics Clinic Pediatrics 2	Medicine Clinic Medicine 7	Ob. & Gyn. Clinic Ob. & Gyn. 4	Medicine Clinic Medicine 6
9 to 10	<p style="text-align: center;">Medicine 5 Section I—4 weeks—W. U. Clinics Section II—4 weeks—Barnes Hospital</p>					
10 to 11						
11 to 12						
12 to 1						
2 to 3	Section I—4 weeks—Medical Specialty Clinics	Section II—4 weeks—Barnes Hospital	Lectures	<p style="text-align: center;">Section I—4 weeks—Medical Specialty Clinics Section II—4 weeks—Barnes Hospital</p>		
3 to 4	Section II—4 weeks—Barnes Hospital		Military Science and Tactics			
4 to 5	C. P. C.* Conference Pathology 4		Surgical Pathology			
5 to 6			Special Lectures			

Note: Sections change at the middle of the quarter.

\* Clerkships take precedence over clinical and pathological conferences.



WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
Fourth Year. Surgical Quarter

1942-43

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 to 9	Neur. & Psych. Clinic Neuropsych, 4a	Surgery Clinic Surgery 7	Pediatrics Clinic Pediatrics 2	Medicine Clinic Medicine 7	Ob. & Gyn. Clinic Ob. & Gyn. 4	Medicine Clinic Medicine 6
9 to 10	<p style="text-align: center;">Surgery 8 to 13, inclusive</p> <p style="text-align: center;">Section I—4 weeks—Homer G. Phillips Hospital</p> <p style="text-align: center;">Section II—4 weeks—9 to 11—W. U. Specialty Clinics; 11 to 1—Tumor Clinic</p>					
10 to 11						
11 to 12						
12 to 1						
2 to 3	Section I—4 weeks—Radiology Section II—2 weeks—Ophthalmology Section II—2 weeks—Otolaryngology	Lectures  Military Science and Tactics  Surgical Pathology	Section I—4 weeks—Radiology Section II—2 weeks—Ophthalmology Section II—2 weeks—Otolaryngology			
3 to 4						
4 to 5	C. P. C.* Conference Pathology 4		Special Lectures			
5 to 6						

Note: Sections change at the middle of the quarter.

\* Clerkships take precedence over clinical and pathological conferences.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
1942-43  
Fourth Year Class. Pediatrics and Obstetrics and Gynecology Quarter

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 to 9	Neur. & Psych. Clinic Neuropsych., 4a	Surgery Clinic Surgery 7	Pediatrics Clinic Pediatrics 2	Medicine Clinic Medicine 7	Ob. & Gyn. Clinic Ob. & Gyn. 4	Medicine Clinic Medicine 6
9 to 10						
10 to 11						
11 to 12						
12 to 1						
2 to 3	Section I-4 weeks—Pediatrics 4 Section II-4 weeks—Obstetrics and Gynecology 5 and 6		Lectures	Section I-4 weeks—Pediatrics 4 Section II-4 weeks—Obstetrics and Gynecology 5 and 6		
3 to 4						
4 to 5	C. P. C.* Conference Pathology 4		Military Science and Tactics	Section I-4 weeks—Pediatrics 4 Section II-4 weeks—Obstetrics and Gynecology 5 and 6		
5 to 6						
			Surgical Pathology			
			Special Lectures			

Note: Sections change at the middle of the quarter.

\* Clerkships take precedence over clinical and pathological conferences.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
Fourth Year Class. Elective Quarter

1942-43

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 to 9	Neur. & Psych. Neuropsych, 4a	Surgery Clinic Surgery 7	Pediatrics Clinic Pediatrics 2	Medicine Clinic Medicine 7	Ob. & Gyn. Clinic Ob. & Gyn. 4	Medicine Clinic Medicine 6
9 to 10	Electives					
10 to 11						
11 to 12						
12 to 1						
2 to 3	Electives	Electives	Lectures	Electives		
3 to 4			Military Science and Tactics			
4 to 5			Surgical Pathology			
5 to 6			Special Lectures			

\* Clerkships take precedence over clinical and pathological conferences.

## DEGREES CONFERRED AT COMMENCEMENT

June 10, 1941

## DOCTOR OF MEDICINE

## NAME—INTERNSHIP

- Ahrens, Roy Edwin, Jr., A.B.—Barnes Hospital, St. Louis Missouri  
 Albert, Bernice, A.B. (cum laude)—St. Louis City Hospital, St. Louis, Missouri  
 Bachwitt, David, A.B.—Charleston General Hospital, Charleston, West Virginia  
 Bartels, Bernhardt Brandt, B.S.—St. Luke's Hospital, St. Louis, Missouri  
 Baughman, Jack Lober, A.B.—Colorado General Hospital, Denver, Colorado  
 Beatty, John Henry, B.S.—City of Detroit Receiving Hospital, Detroit, Michigan  
 Beine, William Royal, A.B.—General Hospital of Fresno County, Fresno, California  
 Bernstorff, Philip Wendell, A.B.—Cincinnati General Hospital, Cincinnati, Ohio  
 Black, Thomas William, A.B.—St. Louis Children's Hospital, St. Louis, Missouri  
 Blackburn, Cecil Howell, A.B., B.S.—Hillman Hospital, Birmingham, Alabama  
 Bohnert, Earl, A.B.—St. Louis City Hospital, St. Louis, Missouri  
 Bramwell, Donald Marion, B.S.—Emanuel Hospital, Portland, Oregon  
 Buck, Robert Ervin, B.S.—Barnes Hospital, St. Louis, Missouri  
 Buckner, Robert Cave, A.B., B.S.—Kansas City General Hospital, Kansas City, Missouri  
 Callaghan, Thomas Joseph, A.B.—St. Luke's Hospital, St. Louis, Missouri  
 Canaga, Bruce Livingston, Jr., B.S.—U. S. Naval Hospital, San Diego, California  
 Caraco, Henry Heron, A.B.—Cedars of Lebanon Hospital, Los Angeles, California  
 Chalkley, Judson Ireland, A.B., B.S.—Kansas City General Hospital, Kansas City, Missouri  
 Connolly, Randall, A.B.—St. Joseph's Hospital, Parkersburg, West Virginia  
 Cook, Robert Jerome, A.B.—Barnes Hospital, St. Louis, Missouri  
 Cross, James Hamilton, A.B.—Research and Educational Hospital, Chicago, Illinois  
 Dickerson, Robert Brooks, A.B. (cum laude)—United States Marine Hospital, Seattle, Washington  
 Dills, Joseph Newton, A.B., B.S.—Charity Hospital of Louisiana, New Orleans, Louisiana  
 Ellis, Calvin Carlyle, A.B.—Henry Ford Hospital, Detroit, Michigan  
 Ellman, Alexander, B.S.—Jewish Hospital of Brooklyn, Brooklyn, New York  
 English, Milton Tate, Jr., A.B., B.S.—Missouri Baptist Hospital, St. Louis Missouri  
 Erganian, Jane Arax, A.B. (cum laude)—Department of Pathology, Washington University School of Medicine, St. Louis, Missouri  
 Ferguson, Wilson Joseph, A.B., B.S.—St. Luke's Hospital, St. Louis, Missouri  
 Fildes, Charles Edward—Research and Educational Hospital, Chicago, Illinois  
 Finkel, Barney William, A.B., B.S.—St. Louis City Hospital, St. Louis, Missouri  
 Fleming, Peter Donnell, A.B.—Deaconess Hospital, Cincinnati, Ohio  
 Franklin, Harold Charles, A.B. (cum laude)—United States Marine Hospital, Staten Island, New York  
 Garretson, Kirk Durand, A.B.—St. Luke's Hospital, San Francisco, California  
 Glaser, Joseph Louis, A.B.—St. Louis City Hospital, St. Louis, Missouri  
 Gollub, Samuel Walter, B.S. (cum laude)—Jewish Hospital of St. Louis, Missouri  
 Graybill, John Gilbert, A.B.—Uniontown Hospital, Uniontown, Pennsylvania  
 Green, Ray Elmer, A.B.—Salt Lake General Hospital, Salt Lake City, Utah  
 Guterman, Henry Samuel, A.B. (cum laude)—Michael Reese Hospital, Chicago, Illinois  
 Hagood, Robert Bragg, Jr., B.S.—T. C. I. Hospital, Fairfield, Alabama  
 Hall, Lillian Mae, A.B.—Baltimore City Hospital, Baltimore, Maryland  
 Harsh, Ralph Thomas, A.B., B.S., A.M.—St. Louis Maternity Hospital, St. Louis, Missouri  
 Hayles, Alvin Beasley, B.S.—St. Louis City Hospital, St. Louis, Missouri  
 Hertz, Sylvan Altshiller, B.S.—Beth Israel Hospital, New York, New York  
 Ivins, Joseph Louis Bernard, A.B.—Chester Hospital, Chester, Pennsylvania  
 Jackson, Thomas Stroud, A.B.—St. Louis City Hospital, St. Louis, Missouri  
 Johnson, Nelson Witter, A.B.—San Francisco Hospital, San Francisco, California  
 Judy, Joseph David—St. Louis County Hospital, Clayton, Missouri  
 Kahn, Leon, B.S., M.S. (cum laude)—Barnes Hospital, St. Louis, Missouri  
 Kerr, David Nafe, A.B.—Barnes Hospital, St. Louis, Missouri  
 Kinder, James Absalom, Jr., A.B.—St. Louis City Hospital, St. Louis, Missouri  
 Koerner, Kenneth Albert, A.B.—Gorgas Hospital, Panama Canal Zone  
 Kohl, Mathias Franz Frederick, B.S., Ph.D. (cum laude)—Strong Memorial Hospital, Rochester, New York  
 LaForce, Richard Francis, A.B.—St. Luke's Hospital, Kansas City, Missouri  
 Lanier, Virginia Singleton, B.S., A.B.—St. Louis City Hospital, St. Louis, Missouri  
 Lee, John Portmess, A.B.—St. Louis City Hospital, St. Louis, Missouri

- Lemmon, George Bruce, Jr., A.B.—George F. Geisinger Memorial Hospital, Danville, Pennsylvania  
 Letterman, Gordon Sparks, A.B., B.S.—Barnes Hospital, St. Louis, Missouri  
 Mariea, Donald James, B.S.—St. Vincent's Hospital, Toledo, Ohio  
 Mark, Philip Frederick, A.B.—New Haven Hospital, New Haven, Connecticut  
 Martin, Ruth Campbell, A.B.—Deaconess Hospital, St. Louis, Missouri  
 Martin, Samuel Preston (cum laude)—Barnes Hospital, St. Louis, Missouri  
 Matthews, Jane Maysey, A.B. (cum laude)—Charity Hospital of Louisiana, New Orleans, Louisiana  
 McCann, Harold Edward—St. Luke's Hospital, St. Louis, Missouri  
 McElroy, Donald McGregor, B.S.—St. Louis City Hospital, St. Louis, Missouri  
 McGinnis, William Fitch—St. Mary's Group of Hospitals, St. Louis, Missouri  
 Moreland, Joseph Ivan, B.S.—George F. Geisinger Memorial Hospital, Danville, Pennsylvania  
 Mueller, Vernetta Austin, Jr., A.B.—United Hospital, Port Chester, New York  
 Nielsen, Cedric Axel, A.B., B.S.—Swedish Hospital, Seattle, Washington  
 Noah, Joseph William, A.B., B.S.—St. Louis City Hospital, St. Louis, Missouri  
 Ozment, Thomas Lewis, A.B.—Fort Sam Houston Station Hospital, Houston, Texas  
 Pickett, Frank Joseph, A.B.—Cleveland City Hospital, Cleveland, Ohio  
 Putnam, John Andrews, A.B.—Receiving Hospital of Detroit, Detroit, Michigan  
 Ramsey, Joseph Hawthorne, A.B.—Grady Hospital, Atlanta, Georgia  
 Ransom, Charles Herman, A.B.—Letterman General Hospital, San Francisco, California  
 Reed, Darwin Cramer, A.B.—St. Francis Hospital, Wichita, Kansas  
 Rehm, Carol Henry, B.S.—Presbyterian Hospital-Olmstead Memorial-Hollywood Hospital, Los Angeles, California  
 Rosen, Allan Morris, A.B.—Cedars of Lebanon Hospital, Los Angeles, California  
 Ross, Silas Earl, Jr., B.S.—Southern Pacific Hospital, San Francisco, California  
 Schechter, Samuel Ely—Jewish Hospital of St. Louis, St. Louis, Missouri  
 Schwarz, Henry II, B.S.—Barnes Hospital, St. Louis, Missouri  
 Shier, Julius Milton, A.B.—St. Louis City Hospital, St. Louis, Missouri  
 Slee, Vergil Nelson, A.B. (cum laude)—Barnes Hospital, St. Louis, Missouri  
 Smith, Garland Frederick, A.B.—St. Luke's Hospital, St. Louis, Missouri  
 Stahl, William Charles, B.S., M.S.—Department of Pathology, Washington University School of Medicine, St. Louis, Missouri  
 Stennes, John Lowell, A.B., B.S.—Swedish Hospital, Minneapolis, Minnesota  
 Stewart, Robert Wendell, B.S.—St. Luke's Hospital, St. Louis, Missouri  
 Tatum, Frank Kimball, A.B.—DePaul Hospital, St. Louis, Missouri  
 Tompkins, Anne Carlton, B.S.—Albany Hospital, Albany, New York  
 Topp, William Leon, B.S.—Jewish Hospital of St. Louis, St. Louis, Missouri  
 Walker, Howard Seaborn Jones, Jr., B.S. (cum laude)—Barnes Hospital, St. Louis, Missouri  
 Whitlock, Gerald Frederick, B.S.—St. Luke's Hospital, St. Louis, Missouri  
 Whitson, Betty, A.B.—Flower and Fifth Avenue Hospital, New York, New York  
 Williams, Charles Sampson—Albany Hospital, Albany, New York  
 Williams, James Carter, A.B.—St. Louis City Hospital, St. Louis, Missouri  
 Womble, James George, A.B.—St. Louis City Hospital, St. Louis, Missouri  
 Yanow, Mitchell—Jewish Hospital of St. Louis, St. Louis, Missouri  
 Yarbrough, Charles Lee—St. Luke's Hospital, St. Louis, Missouri

Total, 97

## BACHELOR OF SCIENCE IN MEDICINE

## NAME — ADDRESS

- Canaga, Bruce Livingston, Jr.—San Diego, California  
 Gollub, Samuel Walter—St. Louis, Missouri  
 Mills, Warren Benjamin—St. Louis, Missouri  
 Schwarz, Henry II—St. Louis, Missouri

Total, 4



## PRIZES AWARDED AT COMMENCEMENT

June 10, 1941

## GILL PRIZE IN ANATOMY

Bryce Harold Bondurant, A.B.

## GILL PRIZE IN PEDIATRICS

Jane Arax Erganian, A.B.

## ALPHA OMEGA ALPHA PRIZE

Leon Kahn, B.S., M.S.

## ALEXANDER BERG PRIZE IN BACTERIOLOGY

Herman Theodore Blumenthal, B.D., M.S., Ph.D.

Hyman Bernard Stillerman, B.S., M.S.

## HOWARD A. MCCORDOCK BOOK PRIZE IN PATHOLOGY

Raymond Ray Lanier, Jr., B.A., Ph.D.

## ALUMNI SCHOLARSHIP

Donald Huelsmann, A.B.

## JACKSON JOHNSON SCHOLARS — 1941-42

William Morris Anderson, B.S.

Parker Reynolds Beamer, A.B.,  
M.S., Ph.D.

Grace Elizabeth Bergner, A.B.

Frank A. Brown, Jr., A.B.

Edward Hardin Dunn, A.B.

Albert Earl Hensel, Jr., A.B.

Charles M. Huguley, Jr., A.B.

Richard Arthur Jones, A.B.

Edwin Krebs, A.B.

Abraham David Krems, B.S., Ph.D.

Robert Dale Lange, A.B.

Harry James Lawler, B.S., D.Sc.

Frances Marshall Love, A.B.

Clayton Hunter Manry, A.B.

Harl Wood Matheson, B.S.

Allyn Jay McDowell, B.S.

Kent McQueen, B.S.

Charles Barber Mueller, A.B.

James Griffith Owen, B.S.

James Allan Read, A.B.

William George Reese, B.S., M.S.

Ernest Tuttle Rouse, B.S.

Philip T. Shahan, A.B.

David Wilson Talmage, B.S.

Gordon Musgrove Todd, B.S.

Souther Fulton Tompkins, A.B.

Martin Sanford Withers, A.B.

## ROSTER OF STUDENTS

PHYSICIANS ATTENDING GRADUATE COURSES BETWEEN  
JANUARY 1 AND DECEMBER 31, 1941

Altman, Samuel J., M.D.	Ophthalmology	Pittsburgh, Pa.
Cayce, Lee F., M.D.	Otolaryngology	Nashville, Tenn.
Coleman, Catherine E., M.D.	Ophthalmology	Pasadena, Tex.
Compton, J. Roy, M.D.	Anatomy	St. Louis, Mo.
Foot, Robert F., M.D.	Chest Surgery	New York, N. Y.
Godwin, Robert W., M.D.	Otolaryngology	Long Beach, Calif.
Hillsinger, Raymond L., M.D.	Otolaryngology	Cincinnati, Ohio
Johanson, Raymond R., M.D.	Ophthalmology	Berkeley, Calif.
Kelley, Robert Wilson, M.D.	Anatomy	St. Louis, Mo.
Lall, Shiam, M.D.	Otolaryngology	St. Louis, Mo.
Magee, George R., M.D.	Ophthalmology	Yerington, Nev.
Marshall, Wilbur J., M.D.	Ophthalmology	Kokomo, Ind.
McAteer, Gerald H., M.D.	Chest Surgery	Bayonne, N. J.
McDonough, Oscar T., M.D.	Chest Surgery	Washington, Pa.
Mund, Maxwell H., M.D.	Otolaryngology	Martinsville, Va.
Pfeiffer, Guy O., M.D.	Otolaryngology	O'Fallon, Ill.
Pugh, Herbert L., M.D.	Chest Surgery	Bethesda, Md.
Roberts, Floyd N., M.D.	Ophthalmology	Prescott, Ariz.
Robertson, James H., M.D.	Otolaryngology	Springfield, Mo.
Sage, Thomas, M.D.	Otolaryngology	Detroit, Mich.
Shelley, Ronald N., M.D.	Chest Surgery	East Syracuse, N. Y.
Smith, John, M.D.	Anatomy	St. Louis, Mo.
Thieme, Harry L., M.D.	Anatomy	St. Louis, Mo.
Titus, Bruce L., M.D.	Otolaryngology	Eugene, Ore.
Vitale, Nicholas S., M.D.	Anatomy	Normandy, Mo.
Ware, Frank A., M.D.	Otolaryngology	Flint, Mich.
Ziegler, Dillman F., M.D.	Chest Surgery	Chicago, Ill.
		Total, 27

## FOURTH YEAR CLASS

- Anderson, William Morris, B.S., Coll. of William and Mary, '38—Cramerton, N. C.  
 Ascher, Eduard—St. Louis, Mo.  
 Austin, Dean Charles, A.B., Univ. of S. Dak., '39—Vermillion, S. Dak.  
 Baird, Harry Haynes, A.B., Univ. of N. C., '38—Mars Hill, N. C.  
 Black, William Alfred, A.B., Univ. of Calif., '23; M.A., Univ. of Calif., '34—  
 Piedmont, Calif.  
 Blumenthal, Herman Theodore, B.S., Rutgers Univ., '34; M.S., Univ. of Pa., '36;  
 Ph.D., Washington Univ., '38—St. Louis, Mo.  
 Bressler, Bernard, A.B., Washington Univ., '38—St. Louis, Mo.  
 Brickhouse, Robert Lee, A.B., Washington and Lee Univ., '36; B.S., Washington  
 and Lee Univ., '37—Norfolk, Va.  
 Brindley, Hanes Hanby—Temple, Texas.  
 Brown, Frank Augustus, Jr., A.B., Davidson Coll., '37—Hsuehchowfu, China.  
 Brown, Royal Lee, A.B., Univ. of Utah, '32; A.M., Univ. of Utah, '33—Koo-  
 sharem, Utah.  
 Burtram, Hobson Dyar, A.B., Univ. of Ala., '38—Tuscaloosa, Ala.  
 Busse, Ewald William, A.B., Westminster Coll., '38—St. Louis, Mo.  
 Callaway, Claude Parham—Palo Alto, Calif.  
 Cason, Elbert Henry, A.B., Univ. of Mo., '37; B.S., Univ. of Mo., '40—Jefferson  
 City, Mo.  
 Christensen, Jerome Jensen, A.B., Univ. of Utah, '39—Salt Lake City, Utah.  
 Crenshaw, James Faulkner, B.S., Birmingham-Southern Coll., '33—Birmingham,  
 Ala.  
 Daman, George Albert, A.B., Univ. of Mo., '38; B.S., Univ. of Mo., '40—St.  
 Louis, Mo.  
 Davis, William Joseph, B.S., Univ. of Wash., '38—Portland, Ore.  
 Devereux, Edwin Ewing, A.B., Fresno State Coll., '38—Fresno, Calif.  
 Eck, Birkle, A.B., Washington Univ., '38—St. Louis, Mo.  
 Ellis, Samuel Teel, Jr., A.B., Univ. of Mo., '39; B.S., Univ. of Mo., '40—Kansas  
 City, Mo.  
 Eyttinge, Ernest Joseph, A.B., Stanford Univ., '38—Redlands, Calif.  
 Foote, Burton Alexander, B.S., Univ. of Wash., '38—Elma, Wash.  
 Frerking, Herbert William, A.B., Univ. of Mo., '39; B.S., Univ. of Mo., '40—  
 Alma, Mo.  
 Gibbel, Melvin Isaac, A.B., Ill. Coll., '38—Girard, Ill.  
 Glashow, Jules Lewis—Atlantic Beach, N. Y.  
 Grabau, Gene Henry, B.S., St. Louis Coll. of Pharm., '37—St. Louis, Mo.  
 Graul, Walter Phillip, A.B., Valparaiso Univ., '38—St. Louis, Mo.  
 Groshart, Gene Marion, B.S., Univ. of Wyo., '38—Worland, Wyo.  
 Hamlin, Edwin Marshall, A.B., Univ. of Calif., '38—Santa Rosa, Calif.  
 Harell, Alex—St. Louis, Mo.  
 Herdener, Russell Louis, B.S., St. Ambrose Coll., '36—Moline, Ill.

- Herrmann, Arnold John, B.S., Elmhurst Coll., '38—St. Louis, Mo.  
 Herz, James Rudolph, A.B., Univ. of Nev., '37—Reno, Nev.  
 Huguley, Charles Mason, Jr., A.B., Emory Univ., '38—Atlanta, Ga.  
 Ishida, Hiraku, A.B., Stanford Univ., '38—Atherton, Calif.  
 Jones, Asa Charles, Jr., A.B., Washington Univ., '38—University City, Mo.  
 Jones, Edward Henry, Jr., A.B., Western Reserve Univ., '37—Youngstown, Ohio.  
 Jones, Wendell LeRoy—Missoula, Mont.  
 Keenan, Thomas Marshall, A.B., Stanford Univ., '37—Great Falls, Mont.  
 Keller, Frank Goulding, B.S., Ala. Polytechnic Institute, '34—Birmingham, Ala.  
 Klinge, Frederick William, A.B., Univ. of Mo., '38—St. Louis, Mo.  
 Kotner, Irvin Alfred, A.B., Washington Univ., '38—St. Louis, Mo.  
 Kraft, Edward Otto, Jr.—University City, Mo.  
 Kreiss, Caroline Georgine, A.B., Univ. of Calif., '38—San Mateo, Calif.  
 Levy, Samuel Arthur, A.B., Howard Coll., '38—Birmingham, Ala.  
 Lockhart, Charles Ellsworth, A.B., Ill. Coll., '38—Witt, Ill.  
 Loquvam, George Sheridan, B.S., Wash. St. Coll., '38—Spokane, Wash.  
 Love, Frances Marshall, A.B., Rice Inst., '37—Houston, Texas.  
 Madonia, Angelo Joseph, A.B., Univ. of Rochester, '38—Rochester, N. Y.  
 Martz, John Charles, A.B., Univ. of Mo., '38—Kirkwood, Mo.  
 McAfee, Chester Alan, B.S., Wash. St. Coll., '39—Long Beach, Calif.  
 McCain, French Howell, B.S., Univ. of N. C., '39—Asheville, N. C.  
 McCorkle, Elbert Lee, A.B., Mo. Valley Coll., '38—Marshall, Mo.  
 Meamber, Donald Lester, A.B., Univ. of Calif., '37—Yreka, Calif.  
 Melgaard, Sven Ross, B.S., Univ. of Utah, '39—Fairview, Utah.  
 Mihelich, Lewis, B.S., Univ. of Idaho, '35; M.S., Univ. of Idaho, '38—Mullan, Idaho.  
 Mills, Warren Benjamin, B.S., Washington Univ., '41—Webster Groves, Mo.  
 Moore, Donald Mahaney, B.S., Univ. of Utah, '39—Salt Lake City, Utah.  
 Mueller, Charles Barber, A.B., Univ. of Ill., '38—Carlinville, Ill.  
 Neavles, Jackson Coll, A.B., Washington Univ., '38—Webster Groves, Mo.  
 Peck, Chester Roehl, Jr., A.B., Central Coll., '38; B.S., Univ. of Mo., '40—Malden, Mo.  
 Pillsbury, Ruth Merrillie, A.B., Univ. of Calif., '37—Berkeley, Calif.  
 Ponka, Joseph Luke, A.B., W. Va. Univ., '40; B.S., W. Va. Univ., '40—Morgantown, W. Va.  
 Preston, Richard Anuissen, B.S., Utah St. Agri. Coll., '38—Logan, Utah.  
 Ransom, Dow Harvey, Jr., A.B., Stanford Univ., '38—Madera, Calif.  
 Ray, James Clark, A.B., Univ. of Ala., '38—Sulligent, Ala.  
 Reese, William George, B.S., Univ. of Idaho, '38; M.S., Univ. of Idaho, '38—Preston, Idaho.  
 Reller, Helen Clarissa, A.B., Washington Univ., '38—St. Louis, Mo.  
 Rice, Herman, A.B., Western Reserve Univ., '37—Cleveland, Ohio.  
 Royce, Robert Killian, B.S., Univ. of Miss., '39—Isola, Miss.  
 Rubel, Joseph Leo, A.B., Univ. of Ala., '38—Columbus, Miss.  
 Schneider, Eldee Lewis—Dodge City, Kans.  
 Schreiber, Ruth, A.B., Washington Univ., '38—St. Louis, Mo.  
 Shahan, Philip Truman, A.B., Harvard Coll., '38—Clayton, Mo.  
 Shobe, Frank Oscar, A.B., Washington Univ., '38—St. Louis, Mo.  
 Showalter, John Ralph, Jr., A.B., DePauw Univ., '38—Glendale, Mo.  
 Slaughter, John McAdory, B.S., Southwestern Coll., '40—Millerville, Ala.  
 Stillerman, Hyman Bernard, B.S., Coll. of the City of N. Y., '36; M.S., Washington Univ., '38—Great Neck, N. Y.  
 Stortz, Robert Benjamin—Pomona, Calif.  
 Sutherland, Earl Wilbur, Jr., B.S., Washburn Coll., '37—Burlingame, Kans.  
 Sweetman, Homer Allen, B.S., Univ. of Wash., '40—Seattle, Wash.  
 Tillman, Walter William, Jr.—Springfield, Mo.  
 Tompkins, Souther Fulton, A.B., Washington and Lee Univ., '37—Lexington, Va.  
 Tongen, Lyle Aaron, B.S., Univ. of N. Dak., '40—Walhalla, N. Dak.  
 Turner, Glenn Oliver, A.B., Southwest Mo. State Teachers Coll., '38; B.S., Univ. of Mo., '40—Ozark, Mo.  
 Utterback, Manly, A.B., Westminster Coll., '38; B.S., Univ. of Mo., '40—Perry, Mo.  
 Watkins, George Linn, A.B., Westminster Coll., '38—Farmington, Mo.  
 Wear, Thomas Ralph, A.B., Univ. of Ala., '38—Haleyville, Ala.  
 Weaver, Jack Dorsey, A.B., Washington Univ., '38—Wichita, Kans.  
 White, Abraham George, B.S., Coll. of the City of N. Y., '37—Ozone Park, N. Y.  
 Withers, Martin Sanford, A.B., Univ. of Kans., '38—Clay Center, Kans.

Total, 93

## THIRD YEAR CLASS

- Anderson, De Wayne Campbell, B.S., Iowa State Coll., '40—Stanhope, Iowa.  
 Anthony, Dallas Dean, B.S., Drury Coll., '39—Springfield, Mo.  
 Arthur, John Mannen, III, A.B., Univ. of Kans., '39—Kansas City, Kans.  
 Ashley, Hugh Vincent, Jr., A.B., Univ. of Mo., '39—Cape Girardeau, Mo.  
 Aufder Heide, George Russell, A.B., Washington Univ., '39—St. Louis, Mo.  
 Balken, John Bruce, A.B., Univ. of Utah, '39—Salt Lake City, Utah.  
 Barrett, Elmer LeVerl, A.B., Univ. of Utah, '40—Salt Lake City, Utah.

- Beam, Robert Shelton, B.S., Univ. of N. C., '33—Asheville, N. C.  
 Beamer, Parker Reynolds, A.B., Univ. of Ill., '35; M.S., Univ. of Ill., '37; Ph.D., Univ. of Ill., '40—Urbana, Ill.  
 Bergner, Grace Elizabeth, A.B., Washington Univ., '39—Granite City, Ill.  
 Best, Robert Bruce—Paris, Ill.  
 Birsner, Frank Hinch, A.B., Washington Univ., '39—St. Louis, Mo.  
 Bowersox, Warren Ashley, A.B., Municipal Univ. of Wichita, '39—Wichita, Kans.  
 Boyle, Jean Rebecca, B.S., Univ. of Wash., '36; M.S., Univ. of Wash., '37—Seattle, Wash.  
 Cadman, Ewan Frederick Braithwaite—Southport, England.  
 Callahan, William Paul, Jr., B.S., Univ. of Notre Dame, '39—Wichita, Kans.  
 Case, Dorothy Mildred—St. Louis, Mo.  
 Caton, William Leroy, Jr., B.S., Spring Hill Coll., '39—Mobile, Ala.  
 Charnas, Raymond Mervin, A.B., Washington Univ., '39—Brooklyn, N. Y.  
 Christensen, Dale Clair, B.S., Utah St. Agri. Coll., '36; M.S., Utah St. Agri. Coll., '38—Brigham, Utah.  
 Cockrell, John Lloyd, A.B., Univ. of Mo., '39; B.S., Univ. of Mo., '41; M.A., Univ. of Mo., '41—Troy, Mo.  
 Conlin, Gerald John, Jr.—Blackfoot, Idaho.  
 Crites, John Lee, A.B., Denison Univ., '39; B.S., W. Va. Univ., '41—Charleston, W. Va.  
 Daley, Frank Russell, A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—North Little Rock, Ark.  
 Davis, DelRoy Richard, A.B., W. Va. Univ., '40; B.S., W. Va. Univ., '41—Kingwood, W. Va.  
 Deck, Melvin Denver, A.B., Univ. of Utah, '37—Salt Lake City, Utah.  
 Dunn, Edward Hardin, A.B., Ohio Univ., '39—Portsmouth, Va.  
 Ellis, Francis Jerome, A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—Springfield, Mo.  
 Ewing, Nathaniel Du Kate, A.B., Duke Univ., '37—Vincennes, Ind.  
 Farrington, Wilma Rose, A.B., Washington Univ., '39—St. Louis, Mo.  
 Feldman, David—St. Louis, Mo.  
 Fernau, Walter August, Jr., A.B., Washington Univ., '39—Belleville, Ill.  
 Firminger, Harlan Irwin, A.B., Washington Univ., '39—St. Louis, Mo.  
 Fisher, Don Lyon, B.S., Univ. of Utah, '40—Bountiful, Utah.  
 Freeman, David Merrill, A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—Kirksville, Mo.  
 Fullenwider, Charles Glendenning, B.S., Univ. of Okla., '38—Muskogee, Okla.  
 Goldman, Melvin Leonard, A.B., Washington Univ., '39—St. Louis, Mo.  
 Gundle, Sigmund—St. Louis, Mo.  
 Guterman, Bert, A.B., Clark Univ., '39—Worcester, Mass.  
 Haines, Wilbur Fox, A.B., Stanford Univ., '39—Atherton, Calif.  
 Harding, Herbert Clagett, B.S., Fort Hays, Kans. State Coll., '39—St. Louis, Mo.  
 Holt, James Homer, A.B., Western Reserve Univ., '38—Wichita, Kans.  
 Holt, Robert Earl, Jr.—Stuttgart, Ark.  
 Huelsmann, Donald, A.B., Colo. Coll., '39—Colorado Springs, Colo.  
 Kahn, Stanley Samuel, A.B., Univ. of Alabama, '39—Gadsden, Ala.  
 Kanter, Stanley Samuel, A.B., Harvard Coll., '38; A.M., Harvard Univ., '39—Mattapan, Mass.  
 Keeney, Ivan Floyd, A.B., Ore. State Coll., '39—Ashland, Ore.  
 Klingberg, William Gene, A.B., Municipal Univ. of Wichita, '38—Wichita, Kans.  
 Kneznokoff, Leonard, A.B., Washington Univ., '39—St. Louis, Mo.  
 Knoke, Frederick William, Jr., A.B., Washington Univ., '39—Clayton, Mo.  
 Koch, Fremont Pershing, A.B., Dartmouth Coll., '40—San Diego, Calif.  
 Lawrence, Forrest Clifton, B.S., Univ. of Mo., '41—Springfield, Mo.  
 Layton, Ira Clare, A.B., Univ. of Kans., '39—Kansas City, Mo.  
 Leibner, Ira Wallace, A.B., Univ. of Wis., '39—Brooklyn, N. Y.  
 Lemoine, Albert Napoleon, Jr., A.B., Univ. of Kans., '39—Kansas City, Mo.  
 Lippert, Stuart Peter, A.B., Ill. Coll., '39—Ft. Sam Houston, Texas.  
 Masunaga, Elchi, B.S., Univ. of Hawaii, '27—Lanai, Hawaii.  
 Mattick, Irvin Hertter, A.B., Washington Univ., '40—St. Louis, Mo.  
 Mayfield, James Logan, A.B., Westminster Coll., '39—Crystal City, Mo.  
 McDowell, Allyn Jay, B.S., Drury Coll., '39—Springfield, Mo.  
 McKemie, Jack Furman, B.S., Texas A. and M. Coll., '38—Hearne, Tex.  
 McQueen, Kent, B.S., Univ. of Idaho, '38—Preston, Idaho.  
 McWilliams, John Edwin, A.B., Colo. Coll., '39—Colorado Springs, Colo.  
 Miller, Elmer Bowman, A.B., Washington Univ., '39—St. Louis, Mo.  
 Miller, James Augustus, A.B., Whitman Coll., '38—Colfax, Wash.  
 Modert, Jean Maximillian, A.B., Washington Univ., '39—Mt. Vernon, Ill.  
 Naney, Alva Paul, Jr.—Flora, Ill.  
 Odell, Richard Thomas, A.B., Westminster Coll., '35; B.S., Univ. of Mo., '41—St. Louis, Mo.  
 O'Hea, Matthew Arthur—Wishaw, Scotland.  
 Pappenfort, Roberts Bernhard, Jr., A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—Murphysboro, Ill.

- Petry, James Louis, A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—Columbia, Mo.  
 Quinn, Denise Callister, A.B., Univ. of Utah, '40—Salt Lake City, Utah.  
 Read, James Allan, A.B., Albion Coll., '39—Detroit, Mich.  
 Rose, Leslie William, Jr., B.S., Univ. of N. C., '40—Rocky Mount, N. C.  
 Rose, Raymond Frederick—Dupo, Ill.  
 Rosenstein, Ernest Simon, A.B., Univ. of Calif., '38—San Francisco, Calif.  
 Rouse, Ernest Tuttle, B.S., Ala. Poly. Inst., '39—Auburn, Ala.  
 Rupp, Edson Coldren, Jr., A.B., Denison Univ., '36—Granville, Ohio.  
 Santer, Daniel Gladden, B.S., Haverford Coll., '39—Milwaukee, Wis.  
 Schwartz, Ernest, A.B., Univ. of Calif., '38; M.A., Univ. of Calif., '39—San Francisco, Calif.  
 Schweitzer, Fred Carl, Jr., B.S., Drury Coll., '38—Springfield, Mo.  
 Seidler, William A., Jr., A.B., Grinnell Coll., '39—Jamaica, Iowa.  
 Shaw, Carvel Thomas, B.S., Univ. of Mich., '39—Detroit, Mich.  
 Smith, Foyell Pennington, A.B., Univ. of N. C., '39—Lexington, N. C.  
 Smith, Ralph Jackson, B.S., Birmingham-Southern Coll., '38—Birmingham, Ala.  
 Snyder, Edward Nicholas, A.B., Univ. of Southern Calif., '39—West Los Angeles, Calif.  
 Stauss, Hans-Karl, A.B., Univ. of Miss., '39; B.S., Univ. of Miss., '40—Port Gibson, Miss.  
 Tabankin, Alvin Jacob, B.S., Coll. of William and Mary, '39—Newark, N. J.  
 Thurlow, Alfred Amos, Jr., A.B., Pomona Coll., '39—Santa Rosa, Calif.  
 Todd, Gordon Musgrove, B.S., State Coll. of Wash., '39—Pullman, Wash.  
 Turbeville, Fred Morton, A.B., Univ. of Alabama, '37—Birmingham, Ala.  
 Uhlemeyer, Henry Adolph, Jr., A.B., Washington Univ., '39—St. Louis, Mo.  
 Watkins, Carlton Gunter, A.B., Univ. of N. C., '39—Wilmington, N. C.  
 Wheeler, Raymond Milner—Sanford, N. C.  
 Williams, Rymal Graft, A.B., Univ. of Utah, '40—Cedar City, Utah.  
 Wise, Robert James, A.B., Washington Univ., '39—St. Louis, Mo.  
 Wissmath, Frank Sum, A.B., Washington Univ., '39—Clayton, Mo.  
 Witt, Clyde Max, A.B., Central Coll., '38; B.S., Univ. of Mo., '41—St. Joseph, Mo.  
 Wittler, Harry Albert, A.B., Washington Univ., '39—Lemay, Mo.  
 Wooldridge, Wilfred Erwin, B.S., Drury Coll., '39—Springfield, Mo.  
 Yore, Richard William, A.B., Washington Univ., '39—Brentwood, Mo.

Total, 101

## SECOND YEAR CLASS

- Allred, H. Lawrence, A.B., Fresno State Coll., '40—Madera, Calif.  
 Black, John Paul Myles, B.S., Univ. of N. M., '40—Raton, N. M.  
 Blinn, John Ferguson, Jr., A.B., Coll. of the Pacific, '40—Stockton, Calif.  
 Blumenschein, John Charles, B.S., Iowa St. Coll. of Agri. & Mech. Arts, '40—Ames, Iowa.  
 Boles, Clifford Read, A.B., Washington Univ., '40—University City, Mo.  
 Bondurant, Bryce Harold, A.B., Northeast Mo. St. Teachers Coll., '36—Kirksville, Mo.  
 Castile, Daniel Shetler, A.B., Fresno State Coll., '39—Le Grand, Calif.  
 Chappell, Frances May, A.B., Washington Univ., '40—St. Louis, Mo.  
 Clay, Joseph Baker, A.B., San Diego State Coll., '40—La Mesa, Calif.  
 Compton, James Richard, A.B., Washington Univ., '40—Memphis, Tenn.  
 Covington, Terrell, Jr., A.B., Washington Univ., '40—Muskogee, Okla.  
 Cravens, James Hewitt—Collinsville, Ill.  
 Czebrinski, Edward Walter, A.B., Washington Univ., '40—St. Louis, Mo.  
 De Bold, Conrad, A.B., Park Coll., '41—New York, N. Y.  
 Donley, Leo Francis, Jr., B.S., Univ. of Dayton, '40—St. Louis, Mo.  
 Eisenhauer, John Herman, B.S., St. Coll. of Wash., '40—Post Falls, Idaho.  
 Engleman, Reinhold, B.S., Ind. St. Teachers Coll., '40—Terre Haute, Ind.  
 Erickson, William Gardner, B.S., Northwestern Univ., '40—Danville, Ill.  
 Fritz, Herbert Carl Henry, A.B., Washington Univ., '40—Bunker Hill, Ill.  
 Fukushima, Yasuyuki, B.S., Univ. of Hawaii, '40—Wahiawa, Oahu, Hawaii.  
 Goldfarb, Alvin, A.B., Washington Univ., '40—St. Louis, Mo.  
 Gottschalk, Louis August, A.B., Washington Univ., '40—St. Louis, Mo.  
 Grant, Harold M., A.B., Washington Univ., '40—Bronx, N. Y.  
 Greenwood, Benjamin Samuel, B.S., Univ. of Ill., '39—Champaign, Ill.  
 Guemmer, Gerald Edwin, A.B., Washington Univ., '40—New Holland, Ill.  
 Hewitt, Archie Lee—Maplewood, Mo.  
 Hewitt, Helen, A.B., Washington Univ., '40—St. Louis, Mo.  
 Ingram, John Samuel, A.B., Univ. of Ore., '40—Pendleton, Ore.  
 Jones, Richard Arthur, A.B., Westminster Coll., '40—Richmond Heights, Mo.  
 Jordan, Mary, A.B., Univ. of Mo., '40—Webster Groves, Mo.  
 Joslyn, Howard Pratt, B.S., Northwestern Univ., '40—Oak Park, Ill.  
 Kettenbach, Edward Leland, B.S., Univ. of Ariz., '40—Tucson, Ariz.  
 Kingsbacher, Elaine Dryfoos, A.B., Univ. of Calif. at Los Angeles, '40—Pasadena, Calif.  
 Kowert, Edward Harry, A.B., Washington Univ., '40—St. Louis, Mo.  
 Krebs, David Evans, A.B., Washington Univ., '40—Sioux City, Iowa.  
 Krebs, Edwin, A.B., Univ. of Ill., '40—Greenville, Ill.



- Krems, Abraham David, B.S., Univ. of Wash., '37; Ph.D., Univ. of Wash., '40—Seattle, Wash.  
 Lawler, Harry James, B.S., Univ. of Ill., '36; D.Sc., Johns Hopkins Univ., '40—Chicago, Ill.  
 Lichtwardt, Harry Edward, A.B., Oberlin Coll., '40—Rio de Janeiro, Brazil.  
 Luikart, Ralph Herbert, Jr., A.B., Grinnell Coll., '40—Omaha, Nebr.  
 Lyda, Wood, B.S., Univ. of Wash., '40—Seattle, Wash.  
 Makley, Torrence Aloysius, Jr., B.S., Univ. of Dayton, '40—Dayton, Ohio.  
 Mallory, Joseph Ross, A.B., Municipal Univ. of Wichita, '39—Arlington, Kans.  
 Matheson, Earl Wood, B.S., Univ. of Ill., '40—Neponset, Ill.  
 Mazur, Herbert Arthur—University City, Mo.  
 McElroy, Glenn Leslie, A.B., Central Coll., '40—New Franklin, Mo.  
 Meisenheimer, Martin P.—Oak Park, Ill.  
 Middleton, William Harry, A.B., Oberlin, Coll., '40—Alton, Ill.  
 Miller, William Joseph, B.S., Washburn Coll., '40—Topeka, Kans.  
 Mixson, James Goodwin, B.S., Univ. of Florida, '40—Tampa, Florida.  
 Moore, Andrew Maurice, A.B., Washington and Lee Univ., '40—St. Louis, Mo.  
 Moore, Stanley Wayne—Vandalia, Ill.  
 Mundy, Carroll Francis, B.S., Northwestern Univ., '40—St. Joseph, Mo.  
 Neils, Julius Karl, A.B., Reed Coll., '40—Portland, Ore.  
 Owen, James Griffith, B.S., Monmouth Coll., '40—Monmouth, Ill.  
 Payne, John William, B.S., Univ. of Ill., '40—Danville, Ill.  
 Quinn, James Henry—Independence, Mo.  
 Reese, Dorothy, A.B., Valparaiso Univ., '40—Concordia, Mo.  
 Rohlfing, Walter Alfred, Jr., A.B., Washington Univ., '40—St. Louis, Mo.  
 Scheer, George Edward, A.B., Municipal Univ. of Wichita, '40—Wichita, Kans.  
 Schricker, James Louis, Jr., A.B., Univ. of Utah, '39—Salt Lake City, Utah.  
 Shatz, Burton Albert, A.B., Washington Univ., '40—St. Louis, Mo.  
 Silvermintz, Saul Don, A.B., Washington Univ., '40—Clayton, Mo.  
 Sleeter, Richard Lee, B.S., Univ. of Ore., '40—Medford, Ore.  
 Smith, Donald Eugene, A.B., Univ. of Utah, '40—Salt Lake City, Utah.  
 Smitson, Harold Leroy—Los Angeles, Calif.  
 Sprenger, Lucille Audrey, A.B., Univ. of Wis., '40—Peoria, Ill.  
 Stadner, David Allan, A.B., Fresno St. Coll., '40—San Francisco, Calif.  
 Stauffer, Tom Goodman, A.B., Washington Univ., '40—St. Louis, Mo.  
 Sullivan, Daniel Francis—E. St. Louis, Ill.  
 Swift, Robert Howard, A.B., Univ. of Calif., '39—San Francisco, Calif.  
 Tagge, James Fredrick, A.B., Univ. of Okla., '41—Enid, Okla.  
 Thorne, Wiley Kellett, A.B., William Jewell Coll., '40—Mountain Grove, Mo.  
 Tichenor, Robert Woodrow, B.S., St. Louis Coll. of Pharm., '39—Sappington, Mo.  
 Tigert, Russell, Jr., B.S., Univ. of Idaho, '37—Soda Springs, Idaho.  
 Trueblood, Alva Cooper, Jr., A.B., Washington Univ., '40—Webster Groves, Mo.  
 Walters, Harold Eugene, A.B., Stanford Univ., '40—San Jose, Calif.  
 Wiegand, Herbert Charles, A.B., Washington Univ., '40—St. Louis, Mo.  
 Wilson, John Alfred, A.B., Knox Coll., '40—Pekin, Ill.  
 Yeager, Helen Elizabeth, A.B., Central Coll., '40—Palmyra, Mo.  
 Young, Lafayette, Jr., A.B., Washington Univ., '40—Alton, Ill.

Total, 81

## FIRST YEAR CLASS

- Alexander, Mary Ethel, A.B., Washington Univ., '41—Quincy, Ill.  
 Armstrong, Bruce Wendel, B.A., Mont. St. Univ., '41—Saco, Mont.  
 Bercu, Bernard Aran—St. Louis, Mo.  
 Bessman, Samuel Paul—Newark N. J.  
 Birenboim, Irvin Myron—Kansas City, Mo.  
 Bisbee, Rowe Farnsworth—Los Angeles, Calif.  
 Bullock, Albert Abbot, Jr., B.S., Northwestern Univ., '41—Milwaukee, Wis.  
 Callaway, Guy D., Jr.—Springfield, Mo.  
 Carlson, Walter William, A.B., Knox Coll., '41—Princeton, Ill.  
 Cassel, William Joseph, Jr., B.S., Univ. of Ill., '41—Chicago, Ill.  
 Chute, Alfred Lionel, A.B., Harvard Coll., '41—Mountain Lakes, N. J.  
 Cole, Jack Wesley—Eugene, Ore.  
 Davis, James Wilson, A.B., Univ. of Ariz., '41—Tucson, Ariz.  
 Deconne, Gabriel Nino, A.B., Pomona Coll., '40—Hollywood, Calif.  
 Dehlinger, Klaus Rene—Emporium, Pa.  
 Deisher, Robert William, A.B., Knox Coll., '41—Kewanee, Ill.  
 Doherty, Dale Donald, B.S., Ore. St. Coll., '40—Freewater, Ore.  
 Donaldson, Robert Clinton, A.B., Univ. of Mo., '41—Sheldon, Mo.  
 Eisenstein, Albert Bernard, A.B., Univ. of Mo., '41—Doniphan, Mo.  
 Exon, C. Stuart, A.B., Univ. of Kans., '41—Wichita, Kans.  
 Fargotstein, Ralph, B.S., Univ. of Pittsburgh, '38—Pittsburgh, Pa.  
 Fee, Wesley Street, A.B., Univ. of Ariz., '41—Tucson, Ariz.  
 Frost, Jack Keith, A.B., Washington Univ., '41—Jacksonville, Ill.  
 Gallagher, Joseph Charles, B.S., Univ. of Toledo, '41—Rossford, Ohio.  
 Gilkison, John Steward, Jr.—Shoals, Ind.  
 Greenberg, Irving Melbourne, A.B., Hofstra Coll., '40; M.A., Duke Univ., '41—Hempstead, N. Y.

Haber, Jean Carol, A.B., Stanford Univ., '40—San Francisco, Calif.  
 Hansen, Robert Harold, A.B., Univ. of California, '40—San Francisco, Calif.  
 Henry, James Farthing—E. St. Louis, Ill.  
 Hensel, Albert Earl, Jr., A.B., Univ. of Mo., '41—Carthage, Mo.  
 Hodge, Robert Henry—North Kansas City, Mo.  
 Hurder, William Paul—Evansville, Ind.  
 Irving, Edward Palmore, A.B., Phillips Univ., '41—St. Louis, Mo.  
 Johnston, Freeman Leon, B.S., Univ. of Ark., '41—Vandervoort, Ark.  
 Jones, Reed Walton, Jr., B.S., Southeastern St. Coll., '37—Denison, Texas.  
 Kempinsky, Warren Hamilton, B.S., Univ. of Wash., '41—Seattle, Wash.  
 Lange, Robert Dale, A.B., Macalester Coll., '41—Hallock, Minn.  
 LeGrand, David Douglas, B.S., Univ. of Wash., '38—Colby, Wash.  
 Levine, Ervan Lester, A.B., Washington Univ., '41—Suffern, N. Y.  
 Lieppman, Bernard Sylvester, A.B., Washington Univ., '41—Kansas City, Mo.  
 Ling, Alexander—Berkeley, Calif.  
 Loeb, Virgil, Jr.—St. Louis, Mo.  
 Lynch, Patrick Alan—Omaha, Neb.  
 Lynton, Joseph LeRoy, B.S., Univ. of Colo., '39—Denver, Colo.  
 Manry, Clayton Hunter, A.B., Univ. of Mich., '41—Spring Hill, Ala.  
 Marshall, Homer Clayton, A.B., Univ. of Colo., '41—Longmont, Colo.  
 Mason, Edward Allen, A.B., Washington Univ., '41—Orange, N. J.  
 McCann, Charles Harold, A.B., Westminster Coll., '41—St. Louis, Mo.  
 McCann, Walter Robert, A.B., Washington Univ., '41—East St. Louis, Ill.  
 Miller, Don Edward—Wichita, Kans.  
 Mize, William Brownson, A.B., Washington and Lee Univ., '41—Atchison, Kans.  
 Mueller, Joseph Washburn, B.S., Southeast Mo. St. Teach. Coll., '40; A.B., Southeast Mo. St. Teach. Coll., '41—Cape Girardeau, Mo.  
 Murfin, Walter Warren, A.B., James Millikin Univ., '41—Decatur, Ill.  
 Murphy, John William, Jr., A.B., Washington Univ., '41—Kirkwood, Mo.  
 Noller, Henry William, A.B., Univ. of Kans., '41—Topeka, Kans.  
 Obermeyer, Walter Emil, A.B., James Millikin Univ., '40—Decatur, Ill.  
 Ochs, Lamar Herman, A.B., Washington Univ., '41—Lebanon, Ill.  
 Oliver, David Rives, A.B., Univ. of Mo., '41—Cape Girardeau, Mo.  
 Owensby, Lindell Cook—Manhattan, Kans.  
 Palmer, Marion Elizabeth, A.B., Stanford Univ., '38—Spokane, Wash.  
 Pennington, Francis Eugene, Jr., A.B., Washington Univ., '41—St. Louis, Mo.  
 Perkins, Robert Browning, A.B., Rice Inst., '41—Dallas, Texas.  
 Pollock, I. O., B.S., Northeast Mo. St. Teach. Coll., '41; A.B., Northeast Mo. St. Teach. Coll., '41—Powersville, Mo.  
 Pursell, Marvin Tatum, A.B., Washington Univ., '41—St. Louis, Mo.  
 Richardson, Robert James—Fort Scott, Kans.  
 Rude, Roy Edward, B. of Ed., Southern Ill. Norm. Univ., '41—Harrisburg, Ill.  
 Rupp, John Jacob, B.S., Univ. of Idaho, '40; M.S., Univ. of Idaho, '41—Coeur d'Alene, Idaho.  
 Sanneman, Everett Herman, Jr.—East St. Louis, Ill.  
 Schnell, Richard John, A.B., Washington Univ., '41—Pecatonica, Ill.  
 Scott, Robert McKay, A.B., Washington Univ., '41—Kirkwood, Mo.  
 Simpson, Noah Henry, Jr., B.S., Univ. of Ark., '41—Little Rock, Ark.  
 Simril, Wayne Alvin, A.B., Culver-Stockton Coll., '41—Canton, Mo.  
 Smith, David English, Jr., A.B., Central Coll., '41—Bonne Terre, Mo.  
 Snedden, Angus Perry, B.S., Univ. of Wash., '41—Spokane, Wash.  
 Talmage, David Wilson, B.S., Davidson Coll., '41—Kwangju, Korea.  
 Tesser, Rose Gall, A.B., Brooklyn Coll., '41—Brooklyn, N. Y.  
 Thompson, Henry Clay III—Bonne Terre, Mo.  
 Timrud, David Hugh, A.B., Denison Univ., '41—Brooklyn, N. Y.  
 Weaver, James Robert, A.B., Washington Univ., '41—Wichita, Kans.  
 Weisfuse, Louis, B.S., Coll. of the City of New York, '36—Brooklyn, N. Y.  
 Wolf, George Glenn—Fresno, Calif.

Total, 81.

## SPECIAL STUDENT

Trobaugh, Frank Edwin, Jr., West Frankfort, Ill.

## SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

Graduate Students .....	27
Fourth Year Class .....	93
Third Year Class .....	101
Second Year Class .....	81
First Year Class .....	81
Special Student .....	1

Total, 384

## ALPHABETICAL LIST OF NAMES

	PAGE		PAGE
Abel, Oliver, Jr. ....	25, 68	Bishop, Ethel Ronzoni .....	12, 60
Aff, Helen M. ....	28, 86	Bishop, George H. ....	7
Agress, Harry ....	28, 68, 69, 70	Black, J. P. Myles .....	110
Aguilar, Hernan .....	34, 77	Black, Thomas W. ....	104
Ahrens, Roy E., Jr. ....	104	Black, William A. ....	107
Aitken, Louis F. ....	18, 68	Blackburn, Cecil H. ....	104
Albert, Bernice .....	104	Blackwell, Thomas E. ....	36
Alden, Arthur M. ....	12, 83	Blades, Brian B. ....	21, 77
Alexander, Harry L. ....	9, 35, 36, 68, 70, 71, 74	Blair, Edgar A. ....	15, 61
Alexander, Mary E. ....	111	Blair, Vilray P. ....	8, 77
Allen, Duff S. ....	12, 77, 81	Blair, Vilray P., Jr. ....	32, 77
Allen, Henry C. ....	21, 65, 66, 68, 69	Blaney, Loren F. ....	30, 68
Allen, Hubert L. ....	31, 84	Blattner, Russell J. ....	21, 71, 86, 87
Allen, Willard M. ....	7, 35, 36, 84, 85	Bleyer, Adrien .....	16, 86, 87
Allred, H. Lawrence .....	110	Blinn, John F. ....	110
Althaus, Carl J. ....	29, 77	Blumenschein, John C. ....	110
Altman, Samuel J. ....	107	Blumenthal, Herman T. ....	34, 106, 107
Alvis, Bennett Y. ....	13, 84	Board, Leonard M. ....	24, 64
Alvis, Edmund B. ....	27, 84	Boemer, Lilburn C. ....	21, 83
Anderson, De Wayne C. ....	108	Bohnert, Earl .....	104
Anderson, William M. ....	106, 107	Boles, Clifford R. ....	110
Anthony, Dallas D. ....	108	Bondurant, Bryce H. ....	106, 110
Arbuckle, Millard F. ....	12, 83	Bortnick, Arthur R. ....	27, 84
Armstrong, Bruce W. ....	111	Bowersox, Warren A. ....	109
Arneson, Norman .....	19, 82, 84	Boyle, Jean R. ....	109
Arrowsmith, William R. ....	28, 68, 69, 70, 72	Bradley, Frank R. ....	35, 37
Arthur, John M. ....	108	Bramwell, Donald M. ....	104
Arzt Franz J. ....	25, 84	Bredeck, Joseph F. ....	18, 64, 68
Ascher, Eduard .....	107	Bressler, Bernard .....	107
Ashley, Hugh V., Jr. ....	108	Bricker, Eugene M. ....	22, 77, 81
Aufder Heide, George R. ....	108	Brickhouse, Robert L. ....	107
Austin, Dean C. ....	107	Brindley, Hanes H. ....	107
Bachwitt, David .....	104	Brock, Clayton .....	31, 77
Bagby, James W. ....	29, 72	Bromberg, Leon .....	19, 68, 70, 71
Baird, Harry H. ....	107	Bronfenbrenner, Jacques J. ....	7, 35, 36, 62, 63, 64
Balken, John B. ....	108	Brookes, Henry S., Jr. ....	18, 77
Barnett, Henry L. ....	24, 86, 87	Brookes, Theodore P. ....	14, 77
Barnfield, William F. ....	24, 65	Brown, Frank A., Jr. ....	106, 107
Barnhart, Willard T. ....	31, 77	Brown, J. Barrett .....	11, 77
Barrett, E. LeVerl .....	108	Brown, Royal L. ....	107
Bartels, B. Brandt .....	104	Brown, T. Kenneth .....	9, 84, 85
Bartlett, Robert W. ....	22, 59, 60, 77, 80	Brown, Wilson G. ....	28, 65
Bartlett, Willard .....	9, 77	Bruneau, Jacques .....	34, 77
Bartley, S. Howard .....	16	Bryan, James H. ....	27, 84
Bauer, Joseph A. ....	26, 86	Bryan, William T. K. ....	27, 83
Baughman, Jack L. ....	104	Buchmueller, Alfred D. ....	34, 73
Baumberger, James B. ....	9, 59	Buck, Robert E. ....	104
Baumgarten, Walter .....	16, 68	Buckner, Robert C. ....	104
Beam, Robert S. ....	109	Bulger, Harold A. ....	12, 68, 70, 72
Beam, Sim F. ....	27, 68, 69	Bullock, Albert A. ....	111
Beamer, Parker R. ....	106, 109	Burford, Thomas H. ....	34, 77
Beatty, John H. ....	104	Burttram, Hobson D. ....	107
Becke, William G. ....	25, 68	Busch, Anthony K. ....	31, 73, 76
Beine, William R. ....	104	Busse, Ewald W. ....	107
Beisbarth, Carl C. ....	19, 84	Buxell, John O. ....	24, 64
Bell, Robert M. ....	22, 73, 75	Byars, Louis T. ....	26, 77
Bennett, Jean F. ....	29, 68	Cadman, Ewan F. B. ....	109
Bercu, Bernard A. ....	111	Cady, Lee D. ....	17, 68
Berger, Franz A. ....	36	Calhoun, Alan D. ....	22, 84
Bergner, Grace E. ....	106, 109	Callaghan, Thomas J. ....	104
Bering, Isabel .....	37	Callahan, William P., Jr. ....	109
Bernstorff, Philip W. ....	104	Callaway, Claude P. ....	107
Bessman, Samuel P. ....	111	Callaway, Guy D., Jr. ....	111
Best, Robert B. ....	109	Canaga, Bruce L. ....	104
Bierbaum, Olga .....	28, 68, 69, 72	Canepa, Francis J. ....	25, 84
Birenholm, Irvin M. ....	111	Cannady, Edward W. ....	26, 68, 69
Birsner, Frank H. ....	109	Caraco, Henry H. ....	104
Bisbee, Rowe F. ....	111	Carling, Mrs. Stoner .....	37
		Carlson, Anton J. ....	9, 61

	PAGE		PAGE
Carlson, Walter W. ....	111	Deck, Melvin D. ....	109
Carr, Archie D. ....	13, 73	Deconne, Gabriel N. ....	111
Carter, Lemuel Ray ....	5, 38	Dehlinger, Klaus R. ....	111
Case, Dorothy M. ....	109	Deisher, Robert W. ....	111
Cason, Elbert H. ....	107	Deutch, Max ....	20, 86
Cassel, William J., Jr. ....	111	Devereux, Edwin E. ....	107
Castile, Daniel S. ....	110	Dickerson, Robert B. ....	104
Catlin, Daniel Kayser ....	5	Dills, Joseph N. ....	104
Caton, William L. ....	109	Doherty, Dale D. ....	111
Cayce, Lee F. ....	107	Donaldson, Robert C. ....	111
Chalkley, Judson I. ....	104	Donley, Leo F., Jr. ....	110
Chappell, Frances M. ....	110	Doubly, Elma K. ....	30, 68, 72
Charles, Benjamin H. ....	29, 68	Drabkin, Charles ....	18, 84
Charles, Cecil M. ....	14, 59, 60, 68	Drake, Truman G., Jr. ....	29, 68, 69
Charnas, Raymond M. ....	109	Duden, Charles W. ....	17, 68
Christensen, Dale C. ....	109	Dueker, Anna M. ....	36
Christensen, Jerome J. ....	107	Dunham, Harry C. ....	37
Chute, Alfred L. ....	111	Dunn, Edward H. ....	106, 109
Claiborne, Estelle D. ....	33, 37	Eck, Birkle ....	107
Clarke, Harold M. ....	32, 77	Eckert, Charles L. ....	32, 77
Clay, Joseph B. ....	110	Edwards, Joseph C. ....	22, 68, 69, 70, 71
Clesse, Frances A. ....	36	Ehrenfest, Hugo ....	8, 84
Clopton, Malvern B. ....	5, 8, 38, 77	Eisenbauer, John H. ....	110
Cockrell, John L. ....	109	Eisenstein, Albert B. ....	111
Cole, Jack W. ....	111	Elliott, Robert W. ....	23, 68, 70
Coleman, Catherine E. ....	107	Ellis, Calvin C. ....	104
Coleman, William G. ....	19, 72	Ellis, Francis J. ....	109
Collmeyer, Ruth ....	37	Ellis, Samuel T., Jr. ....	107
Colowick, Sidney ....	34, 67	Ellman, Alexander ....	104
Compton, J. Roy ....	107	Elman, Robert ....	10, 35, 71, 77, 78, 80
Compton, James R. ....	110	Elmer, Warren P. ....	10, 68
Cone, Alfred J. ....	15, 83	Emery, Edgar Van Norman ....	24, 73
Conlin, Gerald J. ....	109	Emonts, Robert J. ....	36
Connolly, Randall ....	104	Engleman, Reinhold ....	110
Conrad, Adolph H. ....	17, 72	English, Milton T., Jr. ....	104
Conrad, Adolph H., Jr. ....	31, 72	Engman, Martin F. ....	8, 72
Cook, Jerome E. ....	16, 68	Engman, Martin F., Jr. ....	19, 72
Cook, Malcolm M. ....	30, 68, 86	Erganian, Jane A. ....	32, 65, 104, 106
Cook, Robert J. ....	104	Erickson, William G. ....	110
Cooke, Jean V. ....	7, 35, 71, 86, 87	Erlanger, Joseph ....	6, 35, 61
Cooper, William G., Jr. ....	30, 77	Ernest, John H. ....	36
Cooper, Zola K. ....	23, 65	Eskeles, Irwin H. ....	25, 72
Copher, Glover H. ....	10, 35, 77, 79	Evans, Robert W. ....	24, 59, 60
Cordonnier, Justin J. ....	22, 77	Ewerhardt, Frank H. ....	11, 36, 68
Cori, Carl F. ....	7, 35, 67, 68	Ewing, Nathaniel D. ....	109
Cori, Gerty T. ....	16, 67	Exon, C. Stuart ....	111
Costen, James B. ....	13, 83	Eyermann, Charles H. ....	17, 68, 70, 71
Covington, Terrell, Jr. ....	110	Eytinge, Ernest J. ....	107
Cowdry, Edmund V. ....	7, 35, 59	Fargotstein, Ralph ....	62, 111
Cramer, William ....	16, 59	Farrington, Wilma R. ....	109
Cravens, James H. ....	110	Fee, Wes S. ....	111
Crawford, Jay S. ....	20, 38, 84	Feldman, David ....	109
Crego, Clarence H. ....	13, 77, 80	Feller, Harold H. ....	29, 77
Crenshaw, James F. ....	107	Ferguson, Wilson J. ....	104
Crider, Russell J. ....	32, 77	Fernau, Walter A., Jr. ....	109
Crites, John L. ....	109	Fildes, Charles E. ....	104
Cross, James H. ....	104	Findley, Thomas P., Jr. ....	14, 68, 70, 71
Crossen, Harry S. ....	8, 84	Fingert, Hyman H. ....	22, 73, 75, 76
Crossen, Robert J. ....	14, 84	Finkel, Barney W. ....	104
Crowdus, William W. ....	24, 89	Firminger, Harlan I. ....	109
Cutler, Harry ....	29, 77	Fischel, Walter ....	16, 68
Czebrinski, Edward W. ....	110	Fish, Virgil O. ....	31, 77
Daley, Frank R. ....	109	Fisher, Arthur O. ....	11, 77
Daman, George A. ....	107	Fisher, Don L. ....	109
Danforth, William Henry ....	5, 38	Fleming, P. Donnell ....	104
Davis, DelRoy R. ....	109	Fleishman, Alfred ....	31, 68
Davis, James W. ....	111	Foote, Anna R. ....	36
Davis, Mrs. J. Lionberger ....	37	Foote, Burton A. ....	107
Davis, Myron W. ....	25, 84	Foote, Robert F. ....	107
Davis, William J. ....	107	Franklin, Harold C. ....	104
Day, Anthony B. ....	18, 68	Freedman, Harold ....	31, 68, 69
Deakin, Rogers ....	14, 77	Freeman, David M. ....	109
Dean, Lee W. ....	6, 83	Freiberg, Irene Koehig ....	17, 60
Dean, Lee W., Jr. ....	24, 83	Frerking, Herbert W. ....	107
DeBold, Conrad ....	110		



	PAGE		PAGE
Fritz, Herbert C. ....	110	Harford, Carl G. ....	21, 62, 63, 68, 70, 71
Frost, Jack K. ....	111	Harris, Robert A., Jr. ....	24, 88
Fukushima, Yasuyuki ....	110	Harrison, E. Kendall ....	36
Fullenwider, Charles G. ....	109	Harrison, Glen H. ....	22, 24
Furlow, Leonard T. ....	11, 77, 80, 81	Harrison, Lee B. ....	26, 68, 69
		Harrison, Stanley ....	20, 86, 87
Gage, Helen ....	25, 83	Harsh, Ralph T. ....	104
Gallagher, Joseph C. ....	111	Hartman, Paul T. ....	21, 72
Gardner, Ernest D. ....	24, 59	Hartmann, Alexis F. ....	7, 25, 26, 86, 87
Gardner, Helen ....	34, 86	Haskell, Mrs. John ....	28
Garol, Hugh W. ....	33, 73, 76	Hayles, Alvin B. ....	104
Garretson, Kirk D. ....	104	Hayward, Samuel J. ....	24, 84
Gayford, Muriel ....	37	Heideman, Alvah G. ....	27, 77
Gayford, Clifford Willard ....	5	Heifetz, Carl J. ....	20, 77
Gibbel, Melvin I. ....	107	Heinbecker, Peter ....	11, 77, 78
Gibbins, Donald G. ....	38	Helwig, Elson B. ....	22, 65, 66, 67
Gibson, Edna M. ....	38	Hemingway, Wilson Linn ....	5
Gibson, Ora J. ....	28, 84	Hempelmann, Louis H. ....	16, 65
Gilkison, John S. ....	111	Hempelmann, T. C. ....	10, 56
Gilson, Arthur S., Jr. ....	10, 61	Hennessey, Maude M. ....	26
Gitt, Joseph J. ....	22, 73, 76	Henry, James F. ....	112
Glaser, Joseph L. ....	104	Hensel, Albert E., Jr. ....	106, 112
Glasgow, Carlota ....	37	Herdener, Russell L. ....	107
Glashow, Julius ....	107	Herrmann, Arnold J. ....	103
Glassberg, Bertrand Y. ....	25, 68	Hershey, Alfred ....	15, 62, 63
Glick, Harry N. ....	15, 83	Hertz, Sylvan A. ....	104
Godwin, Robert W. ....	107	Herz, James R. ....	108
Goetsch, Carl ....	32, 84	Hewitt, A. Lee ....	110
Goldfarb, Alvin ....	110	Hewitt, Helen ....	110
Goldman, Alfred ....	17, 68, 70, 71	Heys, Florence M. ....	34, 86
Goldman, Lawrence ....	18, 86	Hildreth, H. Rommel ....	18, 84
Goldman, Melvin L. ....	109	Hilsinger, Raymond L. ....	107
Gollub, Samuel W. ....	104	Hobbs, John E. ....	15, 84, 85
Goodof, Irving J. ....	32	Hodge, Robert H. ....	112
Gorham, Frank D. ....	17, 68	Hoekstra, Lilly D. ....	37
Gottlieb, Leo ....	20, 68, 69	Hofstatter, Leopold ....	34, 73
Gottschalk, Louis A. ....	110	Holden, Raymond F., Jr. ....	23, 68, 69
Grabau, Gene H. ....	107	Holland, Mrs. Robert A. ....	35, 37, 38
Graham, Evarts A. ....	6, 35, 36, 77,	Holt, James H. ....	109
	79, 80, 81	Holt, Robert E., Jr. ....	109
Graham, Helen Tredway ....	11, 67, 68	Horner, John L. ....	28, 68
Grant, Harold ....	110	Hourn, George E. ....	13, 83
Grant, Samuel B. ....	17, 68, 70	Huelsmann, Donald ....	106, 109
Graul, Walter P. ....	107	Hughes, Arthur L. ....	8, 35, 82
Graybill, John G. ....	104	Huguley, Charles M., Jr. ....	106, 108
Green, Arda A. ....	16, 67	Hunter, Francis E. ....	23
Green, Ray E. ....	104	Hurder, William P. ....	112
Greenberg, Irving M. ....	111	Hutto, Herman ....	29, 84
Greenwood, Ben S. ....	110		
Groshart, Gene M. ....	107	Ingram, John S. ....	110
Gruenfeld, Gerhard E. ....	31, 77, 80	Irving, Edward P. ....	112
Guemmer, Gerald E. ....	110	Ishida, Hiraku ....	108
Gundle, Sigmund ....	109	Ivins, Joseph L. ....	104
Guterman, Bert ....	109		
Guterman, Henry S. ....	104	Jackson, Thomas S. ....	104
		Jacobs, Frederick A. ....	20, 86
Haber, Jean C. ....	112	Jacobs, Max W. ....	12, 84
Haffner, Heinz ....	23, 77	Jacobsen, Carlyle, F. ....	7, 35, 73, 74, 75
Hageman, Paul O. ....	21, 68, 70, 71, 72	Jacoby, Louise Q. ....	34
Hagood, Robert B., Jr. ....	104	James, William M. ....	15, 84
Haines, Wilbur F. ....	109	Jaudon, Joseph C. ....	20, 86, 87
Hall, Andy, Jr. ....	30, 77	Jean, J. Ted ....	18, 36, 68
Hall, Lillian M. ....	104	Jensen, Julius ....	14, 68, 70, 71
Hamlin, Edwin M. ....	107	Johanson, Raymond R. ....	107
Hampp, Edward G. ....	23, 65	Johnson, Nelson W. ....	104
Hampton, O. P., Jr. ....	28, 77	Johnston, Freeman L. ....	112
Hampton, Stanley F. ....	31, 36, 68, 70, 71	Jones, Andrew B. ....	13, 73, 74, 75, 76
Hansel, French K. ....	11, 70, 83	Jones, Asa C., Jr. ....	108
Hansen, Robert H. ....	112	Jones, Dorothy J. ....	28, 86
Hanser, S. Albert ....	23, 84	Jones, Edward H., Jr. ....	108
Hanson, William L. ....	25, 83	Jones, Reed W., Jr. ....	112
Harbison, Samuel P. ....	24, 77, 81	Jones, Richard A. ....	106, 110
Harding, Herbert C. ....	109	Jones, Wendell L. ....	108
Hardy, Guerdan ....	24, 83	Jordan, Mary ....	110
Hardy, William F. ....	10, 84	Jorstad, Louis H. ....	23, 77
Harrell, Alex ....	107	Joslyn, Howard P. ....	110



	PAGE		PAGE
Jostes, Frederick A.	15, 77	Lee, John P.	104
Judy, Joseph D.	104	LeGrand, David D.	112
Jullienne, Louis A.	10, 71, 84	Lenmann, John Stark	5
Kahn, Leon	104, 106	Leibner, Ira W.	109
Kahn, Ruth M.	21, 68	Lemmon, George B., Jr.	105
Kahn, Stanley S.	109	Lemoine, Albert N., Jr.	109
Kaiser, Helen	36	Lermit, Geraldine	16
Kalckar, Herman	16, 82	Letterman, Gordon S.	105
Kalmanson, George	30, 62	Levine, Ervan L.	112
Kanter, Stanley S.	109	Levy, Irwin	23, 73, 75, 76
Karl, Michael M.	34, 68, 69	Levy, Samuel A.	108
Keenan, Thomas M.	108	Leydig, Stanley M.	29, 77
Keeney, Ivan F.	109	Lichtwardt, Harry E.	111
Keith, Mary J.	35, 38	Lieben, D. Fritz	34, 77
Keller, Frank G.	108	Lieppman, Bernard S.	112
Kelley, Isaac D., Jr.	12, 83	Liese, Grover B.	19, 84
Kelley, Robert W.	28, 36, 68, 107	Liggett, Hiram S.	17, 68
Kelly, Marshall W.	33, 77	Ling, Alexander	112
Kempinsky, Warren H.	112	Lionberger, John R., Jr.	30, 82
Kenamore, Bruce D.	21, 68, 69	Lippert, Stuart P.	109
Kendall, Barbara S.	25, 73	Lischer, Benno E.	36
Kenney, William E.	32, 65	Lischer, Carl E.	28, 77
Kerr, David N.	104	Lockhart, Charles E.	108
Kettelkamp, George D.	15, 68, 71	Loeb, Leo	6, 65
Kettenbach, Edward L.	110	Loeb, Virgil	9
Key, J. Albert	9, 77, 79, 80	Loeb, Virgil, Jr.	112
Keyes, Edward L., Jr.	25, 77	Loeffel, Robert G.	34, 67
Keys, Edgar H.	32, 84	Londe, Sol	20, 86
Kinder, James A., Jr.	104	Lonsway, Maurice J.	25, 86
Kingsbacher, Elaine	110	Loquvam, George S.	108
Kirby, Daniel Noyes	5	Love, Frances M.	106, 108
Kircher, Theodor E.	31, 68	Luikart, Ralph H., Jr.	111
Kirstein, Melvin B.	33, 68, 70	Luten, Drew W.	10, 68, 70, 71
Kleine, Hans L.	26, 84	Lyda, Wood	111
Klingberg, William G.	109	Lyman, Edward H.	32, 83
Klinge, Frederick W.	108	Lyman, Harry W.	9, 83
Knapp, Louise	35	Lynch, Patrick A.	112
Knezekoff, Leonard	109	Lynton, Joseph L.	112
Knoke, Frederick W., Jr.	109	Ma, Wen Chao	11, 59
Knowles, Cornelia S.	37	MacBryde, Cyril M.	14, 35, 68, 69, 70, 71
Koch, Fremont P.	109	MacCardle, Ross C.	16, 59, 72
Koenig, Karl F.	23, 68, 72	Mackler, Saul	34, 77
Koerner, Kenneth	104	Madonia, Angelo J.	108
Kohl, Mathias F. F.	104	Magee, George R.	107
Kopp, Jules H.	29, 77	Makley, Torrence A.	111
Kotner, Irvin A.	108	Mallinckrodt, Edward, Jr.	5
Kountz, William B.	13, 68, 70	Mallinckrodt, Mrs. Edward	37
Kowert, Edward H.	110	Mallory, Joseph R.	111
Kraft, Edward O.	108	Manry, Clayton H.	106, 112
Krebs, David E.	110	Mansbacher, Kurt	26, 68
Krebs, Edwin	106, 110	Marcus, Morris D.	29, 72
Krebs, Otto S.	13, 84	Marica, Donald J.	105
Kreiss, Caroline G.	108	Mark, Philip F.	105
Krems, Abraham D.	106, 111	Marshall, Homer C.	112
Kubitschek, Paul E.	17, 73, 86, 87	Marshall, Wilbur J.	107
Kuttner, Marianne	33, 86	Martin, Bruce C.	30, 77
LaForce, Richard F.	104	Martin, Ruth C.	105
Lall, Shiam	107	Martin, Ruth E.	16, 86
Lamb, Helen	82	Martin, Samuel P.	32, 65, 105
Lane, Clinton W.	19, 72	Martz, John C.	108
Lange, Adolph C.	20, 84	Mason, Edward A.	112
Lange, Robert D.	106, 112	Mason, Roy E.	24, 84
Langsdorf, Alexander S., Jr.	23, 82	Massie, Edward	22, 68, 70, 71
Lanier, Raymond R., Jr.	29, 59, 106	Masunaga, Elchi	109
Lanier, Virginia S.	104	Matheson, Earl W.	106, 111
Lansing, Albert I.	34, 59	Matthews, Jane M.	105
Large, Alfred M.	30, 77	Mattick, Irvin H.	109
Larimore, Joseph W.	10, 68, 71, 72, 82	Maughes, Sydney B.	23, 73, 75, 76
Lawler, Harry J.	106, 111	Max, Paul F.	27, 84
Lawrence, Ella B.	36	Mayfield, James L.	109
Lawrence, Forrest C.	109	Mazur, Herbert A.	111
Lawrence, John V.	8, 35, 36, 38, 68	McAfee, Chester A.	108
Layton, Ira C.	109	McAteer, Gerald H.	107
		McCain, French H.	108

	PAGE		PAGE
McCann, Charles H. ....	112	Nolan, James F. ....	30, 84
McCann, Harold E. ....	105	Noller, Henry W. ....	112
McCann, Walter R. ....	112		
McCarroll, H. Relton ....	21, 77	Obermeyer, Walter E. ....	112
McCarthy, Mrs. Eugene ....	38	Ochoa, Severo ....	16, 67
McCluney, Mildred ....	38	Ochs, Lamar H. ....	112
McCluney, Mrs. Samuel C. ....	37	Odell, Richard T. ....	109
McCorkle, Elbert L. ....	108	O'Hea, Matthew A. ....	109
McCourt, Walter E. ....	6	O'Keefe, Charles D. ....	12, 84
McCulloch, Hugh ....	11, 35, 86, 87	O'Leary, James L. ....	10, 59, 60
McDonough, Oscar T., Jr. ....	107	Oliver, David R. ....	112
McDowell, Allyn J. ....	106, 109	Olmsted, William H. ....	10, 68, 70
McDowell, Frank ....	30, 77	O'Neill, John B. ....	26, 84
McElroy, Donald M. ....	105	Orman, Oscar C. ....	36
McElroy, Glenn L. ....	111	Owen, James G. ....	106, 111
McGavran, Edward G. ....	11, 64	Owensby, Lindell C. ....	112
McGinnis, William F. ....	105	Ozment, Thomas L. ....	105
McIlvin, June ....	37		
McKemie, Jack F. ....	109	Paddock, Richard ....	13, 84
McMahon, Bernard J. ....	13, 83	Palmer, Marion E. ....	112
McNalley, Frank P. ....	12, 84	Pappenfort, Roberts E. ....	109
McQueen, Kent ....	106, 109	Parker, William B. ....	6, 35
McWilliams, John E. ....	109	Patton, John F. ....	23, 77
Meamber, Donald L. ....	108	Patton, Leslie E. ....	26, 84
Mehrten, Grace ....	25, 68, 72	Payne, John W. ....	111
Meinberg, William H. ....	23, 84	Peck, Chester R., Jr. ....	108
Meisenheimer, Martin P. ....	111	Pennington, Francis E., Jr. ....	112
Melgaard, S. Ross ....	108	Perkins, Robert B. ....	112
Middleton, William H. ....	111	Perley, Anne M. ....	18, 86
Mihelich, Lewis ....	108	Perry, Earl H. ....	15, 88
Miksicek, John E. ....	32, 73, 76	Petry, James L. ....	110
Miller, Don E. ....	112	Peugnet, Hubert E. ....	15, 61
Miller, Elmer B. ....	109	Pfeiffenberger, Ella ....	34, 86
Miller, James A. ....	109	Pfeiffer, Guy O. ....	107
Miller, Lloyd C. ....	32, 68	Phillips, Rosemary ....	24, 64
Miller, Mary Lucy ....	29, 65	Pianetto, Mario Besso ....	34, 77
Miller, William J. ....	111	Pickett, Frank J. ....	105
Mills, Charles W., Jr. ....	32, 84	Pillsbury, Ruth M. ....	108
Mills, Warren B. ....	108	Pollock, I. O. ....	112
Minnich, Virginia ....	30, 68	Pollock, Ralph, Jr. ....	32, 68
Mixson, James G. ....	111	Ponka, Joseph L. ....	108
Mize, William B. ....	112	Post, Lawrence T. ....	7, 35, 36, 84
Modert, Jean M. ....	109	Post, M. Hayward ....	11, 84
Modlin, John J. ....	32, 77	Pote, Thomas B. ....	24, 65
Moore, Andrew M. ....	111	Potter, Allen B. ....	25, 83
Moore, Carl V. ....	14, 35, 68, 69, 70, 71, 72	Powers, John R. ....	24, 86
Moore, Donald M. ....	108	Preisler, Paul W. ....	19, 60
Moore, Marjorie M. ....	37	Preston, Richard A. ....	108
Moore, Morris ....	27, 72	Probst, J. G. ....	18, 77, 80
Moore, Robert A. ....	7, 35, 65, 66, 67	Proetz, Arthur W. ....	9, 83
Moore, Sherwood ....	6, 35, 36, 82	Pruett, Burchard S. ....	30, 77
Moore, Stanley W. ....	111	Pugh, Herbert L. ....	107
Moore, William T. ....	31, 65	Pursell, Marvin T. ....	112
Moreland, Joseph I. ....	105	Putnam, John A. ....	105
Morrin, Kevin C. ....	20, 84		
Morris, Marion ....	20, 62, 63	Quarles, E. B. ....	37
Morrison, Donald ....	36	Queeny, Edgar M. ....	5
Mountjoy, Philip S. ....	31, 83	Quinn, Denise C. ....	110
Mueller, Charles B. ....	106, 108	Quinn, James H. ....	111
Mueller, Joseph W. ....	112		
Mueller, Vernetta A., Jr. ....	105	Rainey, Warren R. ....	14, 77
Mund, Maxwell H. ....	107	Ramsey, Joseph H. ....	105
Mundy, Carroll F. ....	111	Ransom, Charles H. ....	105
Murfin, Walter W. ....	112	Ransom, Dow H., Jr. ....	108
Murphy, John W., Jr. ....	112	Ray, James C. ....	108
Murphy, Paul ....	22, 68, 71	Read, James A. ....	106, 110
Myers, Daniel W. ....	15, 68, 69, 70, 71	Reed, Darwin C. ....	105
		Reese, Dorothy ....	111
Naney, Alva P. ....	109	Reese, William G. ....	106, 108
Neavles, Jackson C. ....	108	Rehm, Carol H. ....	105
Neils, Julius K. ....	111	Reinhard, Edward H. ....	30, 68, 69
Nielsen, Cedric A. ....	105	Reller, Helen C. ....	108
Nielsen, Paul E. ....	34, 59	Reynolds, Mary M. ....	37
Nims, Eugene Dutton ....	5	Rice, Mrs. Charles ....	35
Noah, Joseph W. ....	105	Rice, Herman ....	108
		Richardson, Robert J. ....	112

	PAGE		PAGE
Rloch, David McK.	7, 35, 36, 69, 73, 74, 75, 76	Shahan, William E.	8, 84
Ritterskamp, James J., Jr.	36	Shapleigh, Alfred L.	5
Roberts, Floyd N.	107	Shatz, Burton A.	111
Roberts, Harold K.	30, 68	Shaw, Carvel T.	110
Robertson, James H.	107	Shefts, Lawrence M.	34, 77
Robinson, Edith C.	33, 86	Shelley, Ronald N.	107
Robinson, H. B. G.	15, 65	Shepley, Ethan A. H.	5
Roblee, Melvin A.	20, 84	Shier, Julius M.	105
Roche, Maurice B.	28, 77	Shobe, Frank O.	108
Rohlfing, Edwin H.	20, 86	Showalter, John R.	108
Rohlfing, Walter A.	111	Silvermintz, Saul D.	111
Rose, Dalton K.	9, 77, 80, 82	Simpson, N. Henry, Jr.	112
Rose, Leslie W., Jr.	110	Simpson, William L.	16, 59
Rose, Raymond F.	110	Simril, Wayne A.	112
Rose, William F.	30, 77	Skilling, David M., Jr.	26, 68, 69
Rosen, Allan M.	105	Slaughter, John M.	108
Rosenbaum, Harry D.	27, 84	Slee, Vergil N.	105
Rosenstein, Ernest S.	110	Sleeter, Richard L.	111
Ross, John	33, 68	Smit, Herbert	24, 83
Ross, Silas E., Jr.	105	Smith, David E.	112
Rothman, David C.	30, 84	Smith, Donald E.	111
Roulhac, George E.	33, 77	Smith, Dudley R.	19, 84
Rouse, Ernest T.	106, 110	Smith, Edward	23, 65, 66, 67
Royce, Robert K.	108	Smith, Foyell P.	110
Royston, Grandison D.	9, 84	Smith, Garland F.	105
Rubel, Joseph L.	108	Smith, John	107
Rude, Roy E.	112	Smith, John R.	22, 68, 69, 70, 71
Rupe, Wayne A.	17, 86	Smith, Margaret G.	13, 65, 66, 67
Rupp, Edson C.	110	Smith, Milton	25, 68
Rupp, John J.	112	Smith, Ralph J.	110
Rusk, Howard A.	18, 68	Smitson, Harold L.	59, 111
Russell, Thomas G.	29, 82	Smolik, Edmund A.	34, 77
Russell, William O.	22, 65, 66, 67	Snedden, Angus F.	112
		Snyder, Edward N.	110
Sachs, Ernest	8, 35, 77, 79, 81	Soule, Samuel D.	19, 84
Sage, Thomas	107	Sprenger, Lucille A.	111
Sale, Llewellyn	16, 68, 71	Stadtner, David A.	111
Sanders, Theodore E.	21, 84	Stahl, William C.	33, 105
Sanford, J. Hoy	18, 77	Stauffer, Tom G.	111
Sanneman, Everett H., Jr.	112	Stauss, Hans-Karl	110
Santer, Daniel G.	110	St. Clair, Frederick G.	36
Satterfield, Val B.	14, 73, 75	Stennes, John L.	105
Schechter, Samuel E.	105	Stevenson, Philo	36
Scheer, George E.	111	Stewart, Frances H.	26, 84
Scheff, Harold	27, 68	Stewart, R. Wendell	105
Scherrer, Frederick W., Jr.	26, 83	Stillerman, Hyman B.	106, 108
Schlossstein, Adolph G.	17, 84	Stix, Ernest William	5
Schneider, Eldee L.	108	Stone, Charles A.	12, 77
Schnell, Richard J.	112	Stoner, Mrs. Stanley	37
Schoepfle, Gordon	31, 61	Stortz, Robert B.	108
Scholz, Walter V.	38	Stowell, Robert E.	34, 59
Schreiber, Ruth	108	Strauch, John B.	5
Schricker, James L., Jr.	111	Strauss, Arthur E.	17, 68, 70
Schwab, Sidney I.	8, 73, 75, 76	Stroud, Carliss M.	18, 68, 70
Schwartz, Alfred S.	33	Stutsman, Albert C.	26, 83
Schwartz, Ernest	110	Sulkin, S. Edward	22, 62, 63
Schwartz, Frederick O.	12, 84	Sullivan, Daniel F.	111
Schwartz, Henry G.	21, 59, 60, 77	Suntzeff, Valentina	16, 59
Schwartzman, Bernard	29, 86	Sutherland, Earl W.	67, 108
Schwarz, Henry, II	105	Sweetman, Homer A.	108
Schwarz, Otto H.	6, 84, 85	Swift, Robert H.	111
Schweitzer, Fred	110		
Scobee, Richard G.	33, 84	Tabankin, Alvin J.	110
Scott, Gordon H.	10, 59, 60	Tagge, James F.	111
Scott, Robert McK.	112	Talmage, David W.	106, 112
Scott, Wendell G.	14, 70, 82	Tatum, Frank K.	105
Scrivner, Willard C.	26, 84	Taussig, Albert E.	8, 68, 71
Seddon, John W.	23, 68, 69	Taussig, Barrett L.	21, 68, 69
Seelig, Major G.	8, 77	Taussig, Frederick J.	8, 84
Seib, George A.	13, 59	Taylor, Mary K.	35, 37
Seibel, Marshall G.	21, 68	Terry, Robert J.	6, 59
Seidler, William A., Jr.	110	Tesser, Rose G.	112
Senturia, Ben H.	24, 83	Thieme, Harry L.	26, 77, 107
Shaffer, Philip A.	6, 35, 60	Thompson, Henry C., III	112
Shahan, Philip T.	67, 106, 108	Thompson, Lawrence D.	12, 68, 70, 71
		Thorne, Wiley K.	111

	PAGE		PAGE
Thornton, Robert L.	11, 82	Wegner, Carl R.	15, 84, 85
Throop, George Reeves	6, 35	Weisfuse, Louis	112
Thurlow, Alfred A., Jr.	110	Weiss, Richard	12, 70, 72
Tichenor, Robert W.	111	Wells, Flora R.	38
Tigert, Russell, Jr.	111	Wesson, Thomas W.	33, 84
Tillman, Walter W., Jr.	108	Wheeler, Paul	21, 65, 66
Timrud, David H.	112	Wheeler, Raymond M.	110
Titus, Bruce L.	107	White, A. George	108
Todd, Gordon M.	106, 110	White, Bart N.	31, 68
Tompkins, Anne	105	White, H. Lester	10, 61
Tompkins, Souther F.	106, 108	White, Park J.	17, 86, 89
Tongen, Lyle A.	108	Whitlock, Gerald F.	105
Topp, William L.	105	Whitson, Betty	105
Trobaugh, Frank E., Jr.	112	Wiegand, Herbert C.	111
Trotter, Mildred	10, 59	Wiener, Meyer	9, 84
Trueblood, Alva C., Jr.	111	Wilhelmi, Otto J.	18, 77
Tsuchiya, Hiromu	19, 62, 63, 64, 70	Willett, Joseph C.	24, 64
Turbeville, Fred M.	110	Williams, Charles S.	105
Tureen, Louis L.	15, 73, 75, 76	Williams, James C.	105
Turner, Glenn O.	108	Williams, Rymal G.	110
		Wilson, John A.	111
Uhlemeyer, Henry A., Jr.	110	Wilson, Keith S.	23, 68, 70, 71
Urban, Frank	13, 60	Wilson, Kenneth O.	23, 77
Utterback, Manly	108	Wilson, William K.	31, 77
		Wise, Robert J.	110
Van Scholack, T. W.	35, 38	Wissmuth, Frank S.	110
Varney, Philip L.	13, 62, 63, 64	Withers, Martin S.	106, 108
Veeder, Borden S.	8, 86, 87	Witt, Clyde M.	110
Viergiver, Ellenmae	34, 84	Wittler, Harry A.	110
Vitale, Nicholas S.	107	Wolf, George G.	112
Votaw, Robert E.	19, 83	Wolff, Dorothy	14, 83
		Womack, Nathan A.	11, 36, 77, 81
Wachter, H. Ewing	28, 86, 87	Womble, James G.	105
Wade, Leo J.	33, 68	Woodruff, Frederick E.	10, 84
Walker, Howard S. J.	105	Woodriddle, Wilfred E.	110
Wallace, Harry Brookings	5	Woolf, Ralph B.	33, 84
Walsh, Theodore E.	7, 35, 36, 83	Wright, Sydney T.	33, 68
Walters, Harold E.	111	Wu, Shih-Doh	33, 65
Walton, Franklin E.	6, 20, 35, 36, 77	Wulff, George J. L.	27, 84
Ware, Frank A.	107		
Warson, Samuel R.	16, 36, 73, 74, 75, 76	Yanow, Mitchell	105
		Yarbrough, Charles L.	105
Wasserman, Helman C.	27, 84	Yeager, Helen E.	111
Watkins, Carlton G.	110	Yore, Richard W.	110
Watkins, George L.	108	Young, Howard Isaac	5
Watkins, Mrs. Horton	38	Young, Lafayette, Jr.	111
Wattenberg, Carl A.	29, 77		
Wear, Thomas R.	108	Zentay, Paul J.	17, 86, 87
Weaver, Jack D.	108	Ziegler, Dillman F.	107
Weaver, James R.	112	Zink, Oscar C.	18, 82
Wedig, John H.	31, 68	Zumbalen, Joseph Henry	5, 36

## INDEX

	PAGE		PAGE
Admission		Loan Funds	53
Requirements for	45	McMillan Hospital and Oscar	
to Advanced Standing	47	Johnson Institute	37
to Graduate Courses	48	Medical Economics	89
Alphabetical List of Names	113	Medical Jurisprudence	89
Anatomy	59	Military Science and Tactics	88
Bacteriology and Immunology	62	Neuropsychiatry	73
Barnes Hospital	37	Obstetrics and Gynecology	84
Biological Chemistry	60	Officers	
Calendar	3	Business and Other	36
Clinical Facilities	42	Government and Instruction	6
Committees	35	Ophthalmology	84
Corporation, The	5	Otolaryngology	83
Courses		Pathology	65
Post-Graduate	89	Pediatrics	86
Schedule of	91	Pharmacology	67
Degrees		Physiology	61
Conferred in June, 1941	104	Prizes	51
Requirements for	50	Professional Conduct	89
Dermatology	72	Public Health	64
Dormitory	56	Radiology	82
Executive Faculty	35	Registration	55
Expenses	55	Robert J. Terry Lectureship	44
Fees	55	Scholarships	52
Fellowships	52	Social Service Department	37
Historical Statement	39	St. Louis Children's Hospital	37
Hospital Appointments	51	St. Louis City Hospitals	38
Instruction		St. Louis Maternity Hospital	38
General Plan of	57	Standing and Promotion	48
Internal Medicine	68	Students	
Leo Loeb Lectureship	44	Roster of	107
Library	43	Surgery	77
		University Clinics	38



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## INDEX

	PAGE		PAGE
Admission		Loan Funds	53
Requirements for	45	McMillan Hospital and Oscar	
to Advanced Standing	47	Johnson Institute	37
to Graduate Courses	48	Medical Economics	89
Alphabetical List of Names	113	Medical Jurisprudence	89
Anatomy	59	Military Science and Tactics	88
Bacteriology and Immunology	62	Neuropsychiatry	73
Barnes Hospital	37	Obstetrics and Gynecology	84
Biological Chemistry	60	Officers	
Calendar	3	Business and Other	36
Clinical Facilities	42	Government and Instruction	6
Committees	35	Ophthalmology	84
Corporation, The	5	Otolaryngology	83
Courses		Pathology	65
Post-Graduate	89	Pediatrics	86
Schedule of	91	Pharmacology	67
Degrees		Physiology	61
Conferred in June, 1941	104	Prizes	51
Requirements for	50	Professional Conduct	89
Dermatology	72	Public Health	64
Dormitory	56	Radiology	82
Executive Faculty	35	Registration	55
Expenses	55	Robert J. Terry Lectureship	44
Fees	55	Scholarships	52
Fellowships	52	Social Service Department	37
Historical Statement	39	St. Louis Children's Hospital	37
Hospital Appointments	51	St. Louis City Hospitals	38
Instruction		St. Louis Maternity Hospital	38
General Plan of	57	Standing and Promotion	48
Internal Medicine	68	Students	
Leo Loeb Lectureship	44	Roster of	107
Library	43	Surgery	77
		University Clinics	38

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